Historic, Archive Document
Do not assume content reflects current scientific knowledge, policies, or practices.


Vol. XXII. No. 19
$\underset{\substack{\text { EASTERNN } \\ \text { EDTION }}}{ }$
JULY 1, 1899



## A FARMER'S OUTING

AFAR as leisure is concerned, the Excepting in the matter of moisture ature has been kind to him. Of suushine and fair weather he has an abuudance, so that he is seldom hindered in his work by inclement weather. Nor is he clear away forests, grubs and stumps, pick up stones or drain his acres. The land is bare, level or rolling, and save along the river
bottoms is dry, too dry, in fact, so he is compelled to undergo the lahors of irrigation
A* a sort of providen tial counterhalanee for his manifold hlessings
His seasous of seed time and harvest also afford hin ample time to do overything in a
tiurough manner, with out being ith a Thurry about it. either. Some liis, wheat in Fehru-
ary, and the Christmas
holidays holidars fin from a big row of nial rays of winter

These beiug the con
ditions it is reasonahl to suppose that he ha many spare moments does hare, even during the busiest season
of the year-the sum of the year-the sumplowing time up to the middle of July he assiduously to the la
bors of the farm; for
there is the plowing, the sowing, and what is most important of all, irrigation to he
done. His crops as a general thing come up witbout the aid of artificial moisture, hut as soon as they get a good stand there are two reasons why he should lose no time in getting the water over them. First, the crops need it; second, the waters are pouring snows; the great main canals are running bankful, and unless every drop of water is utilized it may run past and he lost forever. But even as busy as he is he spares time from his home duties to atteud Memorial day exercises and Fourth of July celehration in torm, takin
wife and little ones.
Sometimes hetween the middle of July and the first of Septemher he finds time, a week He not only feels the need the mountains.
He He not only feels the need of a relaxation from the labors and cares of the farin, but
daily he has looked perhaps a hundred times upon the giant range that lies over against the western sky, sleeping serenely in a flood of sunlight, and he yearns for a whiff of Marhap the season has been hot and dry and the surface of his plowed fields have become like beds of dry ashes, and the dust has hlown across the plains in clouds, and and the flying sand has found lodgment be.


Tenting in the Colorado Foot-hill
rusty camp-stove is hrougbt forth from the same general repository, and a busy stir of preparation goes formard, until all is ready for the start. Bedding, provisions and cooking utensils have been stowed in the wagon. The tent-poles have heen thrust through rarious lengths of store-pipe and slung to the sideboards. At the rear end of the wagon large dry-goods box has beeu transformed into a sort of rustic buffet wherein has been stowed, in proper compartments, various ingredients necessary to the culinary art; and a tin hucket has been slung beneath the hind axle, wherewith to draw water for a thirsty team and general camp purposes. At early dawn on the morning of departure, when ererything has heen made snug, two sturdy farm-horses are put to the wagon; the farorite milk-cow is tied to tbe rear, and a crate of live chickens from the poultry-yard is lashed to the top, so that the family dur ing its journey may not he deprived of any of the luxuries of farm-life.
An early hreakfast is eaten, and soon after the sun has risen above the eastern plain and casts its rosy heams upon the purple hill the start is made. There is no hurry, be cause it is an excursion for leisure and rest The morning is cool, aud a refreshing hreeze sweeps down from the mountains, ripplino cross the fields of grain by the wayside The team jogs along the dustry highway at its own sweet will; the reluctant corr pulls
ning brook or buhbling spring, they pause for tbe noonday meal. The horses are taken from the wagon, the harness taken off, the animals watered and picketed out to graze The cow is watered from the bucket, and also tethered out to graze. For the first meal or two food has heen prepared heforehand, so tbere is little to do except to spread the meal upon some convenient piece of sward But there is the coffee to make, and to do this a small arch of loose boulders is built, and a fire built beneath from dry pine faggots that are gathered near. Soon the coffee-pot, black from many previous out ings, is sending forth jets of aromatic vapor mingling with the resinous smell of burning pitch-pine. Water is drawn froin the spring or rivulet, and wben all is ready young aud old fall to with a zest hegotten of a new and freer life. And when the promptings of hunger have been satisfied, and the dishes put to rights, there is no hurried departure, but spell of luxurious leisure is enjoyed. Father draws forth his tobacco-pipe, stretches himself heneath the shade of some overhanging tree, and gazes afar off upou the shimmering hills through clouds of curling smoke, forget ting for the time heing all bis cares and perplexities. And to the tired mother, what surcease of narrow and monotonous drudg ery! Sbe is no longer bemmed about by pressing duties nor petty cares. The tired nerves are relaxed and the ansious hrow un
beads. The warm sunshine bauishes a mul titude of aches and pains, and seems to ente the very soul, aud the lifegiving ether thrills the senses like draughts of wine And the children hie away to the hillsides, in search of wild flower>, lare stoues, crystal and a thousand trifies filched from the bounteous storehousc of Nature. How pleasantly their musical laughter echoes across the glades, falling upon paternal ears with infinite sweetness. And shall the dream be hroken? No! Let the world wag as it will; it is afar off, and is a troubled sphere that has been cast aside. A soft languor falls upon the senses, and A soft languor falls upon the senses, and
physical effort is contemplated with aver sion. It is like the There of lotus flowers incentive of duty nor to draw any kind the long afternoon wears dreamily on, until the sun dips l.ehind the mouutain crests, and a shadow is cast Even the old row is filled with contentment, for she has grazed until slie can lying down upon the lying down upon the warm sod chewing her cud with an air of supremesatisfaction. The horses still crop the grass within the nar-picket-ropes, while the faithful dog, ever mindful of the safety of the younger members of the hills with the children, making occasional sarage assaults upon the native haunts of gophers or jack. rahbits. At last the day de-
parts in a blaze of glory, and dusk stealsgently tbrough the long valleys. Tbe air turns suddenly cooler, and the day-dreams are at an end. The children bave returned laden with trophies and there is a stir in camp. The tent is unloaded and pitched upon a level stretcl of ground, and while the farmer's wie prepares supper at tbe glowing camp-stove, the children gather armfuls of grass and sage-brush with which to soften the heds, wbich must be made upon tbe uneven surface of tbe grouud. The preparation of the evening meal is a matter of more than usual interest, especially to the children. The small hoys persist in stuffing the camp-stove with fresli fuel, until the draft fairly roars, the sides become red-hot, and the pipe pours forth dense clouds of sooty smoke. For supper, hesides the food alrcady prepared, there is coffee, fresh grid-lle-cakes and rashers of bacon, and every mouthful, no matter how plain the food, is a -weet morsel to the palate
After shpper all gather arouud the campfire, and while the shadows in the nooks and corners of the hill- grow deeper there is a tinues until bed-time; then all compose themselves to sleep heneath the ample shelter of tbe tent, while the stars come out softly overhead and the night wiud rustles gently among the hranches of the overhanging trees. The faithful dog lies down ju [concluded on page 7 of this tssue]

FARM AND FIRESIDE
The Crowell \& Kirkpatrick Co. 147 Sassan Streeth $^{\text {SeT York City }}$

204 Dearborn Street,
Subscriptions and all business letters may be ad-
dressed to "FARM AND FIRESIDE." at either one of the above-mentioned offices; letters for the Editor should he marked Eiditor.

## \section*{TERMS OF SUBSCRIPTION} <br> One Year $=(24$ Numbers $)=50$ Cents The above rates iuclnde the parment of postage by as. All snbscriutions commence with the issue ou as. All shbscriptions commence mith the issue ou press whllin order is received. Subscribers receive tbis paper twice a month, which is turice as often as most other farm and family jour

Payment, When sent by mall, should be made in Express or Post-office IIouey-orders, Bank Checks or
Drafts. WHEX XEITHER OF THESE CAY BE PRODrafts. WHEX Nelther of These cas ee
orred. send the money in a registered letter. All
postmasters are required to register letters whenpostmasters are required to register letters when-
ever requested to do So. DO NOT SEXD CEECKS ON

Silver, when sent through the mail, should be carefully wrapped in cloth or strong paper, so as not
Postage-stamps will be received in parment for sub-
scriptlous lin sunns less than one dollar, if for every scriptious lis suns less than one dollar, if for every
25 cents in stamps you add one-cent stanp extra, becanse wie must sell postage-stamps at a loss.
The date on the "Yellow label" shows the time to
whlth each subscrlver has paid. Thus: jun99 means
that the sulscription is paid up to June, 1899; that the subseription is paid
jul99, to July, 1s99, aud so on.
When money is received. the date will be changed
within four weeks, whicb will answer for a receipt. When renewing your subscription, do not fail to say
it is a renewal. If all our snbscribers will do this, it is a renewal. If all our snbscribers will do this,
a great deal of trouble will be aroided. Also gire your
name and initials just ces norr on the yellon caddress label.
 name, just as it is on the label, to your letter of reneucal.
Alluays name your post-oficice.

The Advertisers in This Paper are from reliable fifus or business men, and do not
intentionally or kuowingly iusert advertisements from any but reliable parties: if snbscribers find any of them
to be otherwise we should be glad to know it to me otherwise we should enswering advertisements, as advertisers off
in several papers.

## 

Combertirg on the wheat crop outlook "The June report of the Statistician of the Department of -Igriculture places the average condition of the winter-wheat crop at
67.3 , on the growiug area. So far as our judgment and information goes this result is not suhject to criticism. The statistician observes that this average compares with 83.4 as the mean of June arerages for the
past fifteen years. An analysis of the rec. ords discloses the fact that in recent years the averages of condition have had a higher significance in their relation to yield than in first five years of the past fifteen for the first fire years of the past fifteen the mean
of the June arerages represented a hasis equiralent to a sield of 14.3 hushels an acre for winter wheat for 100 of condition; the yield was the equivalent of 100 of condition; the third period, ending with 1898, adranced this relation to 16.3 hushels as the equivalent of 100 of condition, on the basis of Juue re-
turns. If the latter he adopted now in calculations, applicatiou of 67.3 condition points to 10.98 bushels as the indicated yield, which applied to $26,000,000$ acres suggests 255,000 , 000 bushels. Again, on the basis of 15 bushels for 100 of condition, the indication is for implying a total of $262,000,000$ hushels. This latter result conforms to the application of the statistician's general average of condition for fifteen years to the general arerage
of yield-making it appear that the official data now point to about $260.000,000$ bushels for winter wheat.
"Taking the June condition of the spring wheat for ten years in its average relation to ultimate yield au acre, applying the con-
dition now reported, 91.4 , the indication as to yield is $131 / 4$ hushels, which applied to $17, i 50,000$ acres points to $235,000,000$ bushels. for spring wheat
"It is thus ma
able interpretation of the sfficial information now presented in regard to the wheat crop
of 1890 is approximately $495,000,000$ bushels. And this is as worthy of recognition at this
time as any conclusions offering in regard to the wheat crop outlook."

In reriewing the department's June crop report "Bradstreet's" says:
"As regards wbeat, the relatively more complete information as to area and condi tion has led to considerahle figuring as to
ultimate yield, and estimates seem to point, for the first time on record, to a rield of spring wheat equal to, if not exceeding, that of the minter-grown crop, say $275,000,000$ hushels each, or a grand total of $550,000,000$ bushels prorisional yield, against an actual yield last year of $675,000,000$ bushels and of $590,000,000$ bushels in 1897. Nore bullish estimates point to a yield as low as $500,000,000$ bushels in the aggregate. There is, of course, a serious decline in yield from that of last year foreshadowed br the above figures, and the report has naturally strengthened the riews of the hulls, particularly es crop adrices from abroad hare not been nearly so good as a year ago. Some estimates of for eign origiu, in fact, hare pointed to a heary aggregate reduction in the world's yield, one half of which, by the way, was to he fur nished hy this country. And yet the report
has not proved nearly as stimulating as it has not proved nearly as stimulating as it
reads on its face, chiefly because coincidentally with the receipt of hullisb crop adrices have come very heary receipts of old theat at primary points and large increases instead of the usual seasonable decreases in the ris ihle supply. Whatever the effect of reduced yields may he on transportation interests, it 1898 large vield of wheat met a larger than ordinary consumptive demand, and that while visible supplies just at present are larger than one or two years ago, invisihie supplies, so far as can he gathered, are not at all excessive, certainly not so heary as to offset some of the more bullish predictions of considerably shortened yield throughout the world during the present jear.

R $\mathrm{R}_{\text {reandity }}^{\text {Eanat }}$ Samoa, was horn June 29, 1839, in Georgetown, Ohio. He was graduated at Annapolis in 1861. 1861; lieutenant-commander in 1865; commander in 18i2; cap tain in 1885; commodore in 1897, and rear-adniral in 1898. In the Civil War, while taking the prize hrig Hannab Balch from Charleston, S. C., to Philadelphia, he was captured, June, 1861, by the Confederate privateer Winslow. In Octoparole, went to Washington, and effected the first exchang of prisoners, over three hundred and fifty in number, authorized by President Lincoln. The naval officers hesides himself who were released from prison and returned to duty Worden and Lieutenant George L. Selden. He serred on the flagship Hartford at Forts Jackson and St. Phillip, at the capture of New Orleans, April 24, 1862, and in the en gagemeuts at Ticksburg in June and July 1862.

Replefigg to an editorial in the American policies adrocated by the Department of Agriculture do not ha
"Thecretary Brigham says:
The departinent will undoubtedly try to render assistance to our dependencies lately brought under our control in the production of crops which do not compete with the crops produced in this country. Unquestionably, great improvement may be inade, and the reduction in the cost of production will probahly enahle our people to huy such products cheaper than they buy them to-day So far as the productions that compete with those of our own farmers are concerned, it is not the expectation of the department that such products will be admitted to this country without the payment of a duty that will afford adeguate protection to our own pcople. The farmers of the United States necd have no fear of injury from any action or policy of this department.
"Your editorial scems to advocate the policy of govermment appropriations, for the purposes in the and ditches for irrigation
do not question your right to advocate this policy, but so far as the legislative committee of the National Grange is concerned, the acappropriations clearly indicated their duts. It was entirely proper that such opposition should be made known to Congress and that the attention of the industrial commission should be called to the same in the hearing before that bods. Both the secretary and the assistant f Agriculture indorse the position taren of Agriculture indorse the position taken hy the - Cational Grange on this suhject. The time will doubtless come when these arid lands will he needed for the production of food. When that time comes we have no douht tbat there will he an abundance of private capital ready to make the desired improvements, and that there will he no necessity of taxing the farmers of other por tions of the country for the derelopment of a competition against which there can be no protective tariff.
"The legislative committee of the Nationa Grange can hardly be charged with inconsistency in failing to antagonize the war and the appropriations for carrying it on The National Grange at its last session failed to go on record in opposition to expansion. It is rery safe to say that the anti-expansion element has very little support among the intelligent, patriotic farmers of the couutry. They understand well that in the commercial struggles for the possession of the markets of the world the United States of America cannot afford to he idle. We are already producing a large surplus that must be marketed somewhere, or bard times and great suffering will come to our people. There but little question that a rery strong combi-


Rear-Admimal Albert Kautz
nation among some of the European nations is being formed for the purpose of sbutting out our products from their markets and rom the great markets that will soon be thrown open in Asia. The United States of America must maintain her right to enter those markets even if sbe bas to fight for it.
"If sucb a struggle should come, and we hope it may not, the possession of the Philippine islands will be of untold ralue to our people. There is no question in iny mind that the majority of people will sustain the government. No patriot will ask our soldiers to turn their hacks to a foe when under fire. Our flag will continue to float over those islands so long as the interests of this country and the interests of the inhabitants of that country will he promoted therebs, and the government of the United States will decide when, if ever, these interests will be promoted hy withdrawal. We have always had the anti-expansionists with us, hut their riews have nerer been adopted hyour people, and will not be more acceptahle now. The people, including the farmers, will follow the flag and sustain those who fight under its folds without much regard for the outcries rom Boston and sympathizers elsewhere. Time was when Boston influence was a power in the land. That time has passed. The mighty West (or what was once the West) is now the controlling power, and our future progress will not he stayed by critics who are so narrow between the eyes that they seem to look out of one hole. The Amcrican farmer is l,road and liberal in his riews, and understands the truc situation hetter than these critics, and will not uphold them in their narrow, unpatriotic policy?"

I"A special cable message to the Chicago ber of the Philippine commission, specifically and comprehensively denies the lying state ments ahout alleged cruelties and atrocities to Filipinos hr American soldiers that hare been industriously and mendaciously circulated hy some of the anti-expansion papers of tbis country. Prof. Worcester says, in part: Michaea, who is reported as say Anthony Michaea, who is reported as saying that we bomharded a place called Malabon, and then went in and killed every native we metmen, women and children.

I was personally present on the occasion in question. The trutb of the matter is that Malahon mas nerer bomharded, despite the fact that it was within reach of tbe fleet and tbe field-guns. The town had been aban doned by the natives before our approach except for a lot of sharpshooters, who had positions in the swamp on the outshirts.
"One Hotchkiss and one 3.2-inch gun were fired on them. Our troops first moved to the north mithout entering the town. The in surgents were driven out the following day mbile trying to hurn tbe place. No women or children were killed; there were non there to be killed.
"I have personally inspected all battle fields from Caloocan to Malolos. Once was on the field before the wounded were remored, and repeatedly I was there hefore the dead were buried. I never saw a single woman or child mounded or dead. I have found, on the contrary, wounded rebels whose injuries had been dressed by Amer ican surgeons before the firing had ceased and who had also been prorided with food and water.
"Tbe insurgent wounded were brought to Manila and tended in our hospitals, or even taken care of in prirate hospitals, the gor ernment paying all the expenses
"Wben cured the wounded can hardly he driven away. All the prisoners are well fed and well treated, and many say they are glad they have had the experience and learned to know the Americans. The released pris oners and the recorered wounded are ou best missionaries, but many of them are unwilling to return to their own people.
"It is ahsolutely false that any order was ever issued looking toward the killing of men who might be captured. The American soldiers have repeatedly taken prisoners under circumstances affording ahundant excuse for killing, witb the prorocation very strong. I know positively that the city guards have been ordered to fire on soldiers caught lont ing it. It was not practicable to make ar rests. The natires themselses report that tbe troops have saved property and protected life during the recent operations, and the e
"It is a great mistake to suppose we are fighting the Filipinos as a whole. At least eighty per cent of the population detest this war, and the only serious trouble is in a few Tagalog provinces in Luzou. Other prorinces in this island are now compelled hy the armed force of the iusurgents to suhmit to Tagalog rules. The people in them are pray ing for the coming of the Americans. The present rulers are hated on account of their jobbery and oppression, and erell among the Tagalogs the common people want peace.
"Aguinaldo and bis Congress recentl. appointed a commission empowered to negotiate peace on the terms offered in our proc lamation. The inilitary leaders interfered however, and dissolved the commission.
"The war is kept up hy a few leaders, and only with the greatest difficulty. The heads of the natives are constantly filled with lies and the wildest tales are circulated hy the insurgent leaders. False and slanderous re ports are manufactured iu Hong-Kong and Singapore, and scattered broadcast. The accounts of alleged atrocities printed in American papers are copied by the insurgent press and cause incalculahle harm. They cost good American lives.

Nerertheless, the situation is steadily improving. The mar is being most humanely condlucted; the hungry are fed; the families of the insurgent leaders are granted protec tion in Manila, and eren allowed to enter through the lines. About two hundred persoms are coning daily into the city from the insurgent territory, aud thousands are cager to come. Erery one here is working in the interest of justice, order and lasting peace, and all are anxious for the best good of the country and the people. To this end lawless. ness must be put down with a firm hand, and armed oppression inust he made to cease.


Some Health Hints There are few people, digestiou with some persons always brings their periodical or chronic ailments. And many of these ailments could he so easily
avoided. The crimes agaiust the common avoided. The crimes agaiust the common laws of health and against ordinary common sense are so prevailing, however, that it is a
wonder we still see people in fairly good wonder we still see people in fairly good
health. We eat and drink artificial foods, and among them the most indigestible things. We use decidedly one-sided rations Then to offset, as we suppose, the errors o diet, we go to the drug-store and fill up on pills aud all sorts of patented and mysteri ous componnds which appear to give relie for the moment, only to make a bad matte and druggists get rich iu purse and we get poor in health. That is the penalty for our folly. Outraged nature, however, is very patient aud a powerful heater. manage to reach a good old age (perhap: with more our less ius living sufering) iu what we suppose to be safe medicines

Of course, our family physiciaus like to have us consult them pretty freely. That is to their interest, for they want to live and get rich, too. But there is much truth in says in a recent issue of the "Farm Jourthat when the hest physicians of all times have failed to find a remedy for a certain disease (tuberculosis, for example) that some man in New York or Chicago has a remedy had it in use for at least half a century. It is also a grave fallacy to suppose that some
one whom you uever saw, and who knows one whom you uever saw, and who knows
uothiug of you or your history, could he more adrantageous in treatiug you thau a re liable physiciau acquaiuted with you and your surroundings." It is said that he who
is his own lawyer ofteu has a fool for a client. And it is surely equally true that many who undertake to he their own doctor
have a fool for their patient. People with little judgment and experieuce can follow hut one safe course, and that is to call on or that there is sician as serious as it appear quack doctoring of country people (and I believe of the less iutelligeut classes of city "people none the less) is something really (and an older person as well) is talien sick is to determin whether the sickness is seri physician. A good many of our minor ailments coune from excesses in eatiug and drinking. Nature often provides her orm
remedies. Fairly good judgment and some experience may relieve you of the necessity of calling the doctor. The first thing a physician will do when he counes to see a patient is to look at his tongue and examine his temperature, or as formerly, to feel his pulse. Serious acute disturbances are always ac companied by fever. As long as the temperature is normal nothing very serious can be a physicians' thermometer with me or have it in my desk. It is one of the thiugs that I believe should be iu every country home should learn how to use it. It is a simple natter, and then when one of the household gets sick, you cau soon tell whether there is any need of sending for the doctor or whether the ailnent will be likely- to yield to home treatmeut. You can buy a good thermometer
for about $\$ 1.2 \overline{0}$, and if it saves you one doctor's risit it will have more than paid for itself.

[^0]on a headache. The sensible thing for each individual to do is to keep close watch of these things, and then avoid whatever seem. to disagree with him. One person may have to do without strong coffee, or coffce of any kind except the cereal imitation, or that made of the soy-bean (American coffec-berry). Another may have to let rich pastry or cheese alone, etc. Whatever it is. however, and may it he ever so pal-
atable to you aud tempting, shun it as atable to you alud tempting, shun it as
ou would poison. That is the very first ule which you must observe if you desire to reuain free from these aunoyiug stomach troubles. Also have your meals as regular as clock-work, Sunday as well as week-day Satisfy your natural appetite, hut uever eat so much that you feel uncomfortably full after eating. There is more to this than most people imagine. The stomach symmosthizes with liver and bowels. When the former is all upset the liver and bowels will soon refuse to do their legitimate work. The waste ruaterials tbat in the regular order things ought to be discharged promptly remain in the bowels and must necessarily poisou the blood. The natural consequence is the appearance of all sorts of ailments which may assume a chronic and perhaps ery serious character. The prescription which the physician will give you when called to attend a case of acute stomach dis bowels. to clear out rour stomach and own case as one of this kind you can preseribe your own medicine.

To clean out the stomach a stomach-pump is a good thing. But you can use a simple emetic just as well. A cupful of tepid water alone will do the husiness in many cases. If t does not, the addition of a teaspoonful of salt will surely do it. Then drink lots of hot water. To make thorough work of this, the physician would most likely prescrihe calomel or rhuharb. The common powdered rhuharb is a good thing, and I always bave
it in the house. The druggist will sell you it in the house. The druggist will sell you an ounce for twenty-five cents. It is almost iudispensable for children. Put a teaspoonful iuto a cup. Add a pinch (half teaspoonful) 'of soda carhonate (salaratus), a few drops of peppermint essence, and sugar enough to sweeten. Then fill up the cup with boiling water, aud set away to cool Gire one, two or three teaspoonfuls of this (from the top without stirring) every half from the top without stirring) every half
hour unt the desired effect is obtained. This remedy is excellent in all acute stomach aud howel trouhles, and if taken in time ill cure the various forms of summer complaint, cholera iufantum,
quicker-acting means to clear out stomach and bowels it would not be easy to find anything much better than sulphate of soda Glauber's salts). Take a teaspoonful of this in a cupful of hot water half an hour before hreakfast, and you will most likely have thorough bowel action hy breakfast-time These remedies I helieve are as good as the best that the doctor could prescrihe. The next thing you want to do is to give your stomach a rest. Eat sparingly and only the long before a trouble of this kind will disappear. However, there is still another neaus of clearing out the bowels in thorough way, and that is hy flooding with warm (almost hot) water. The fountainsringe (three or four quart size) is a convenience which should be found in every house. Some children are hahitually costive. The only satisfactory way to deal with case of this kind is by the use of warm water in jections. With the syringe you can force a thorough movement of the bowels at any time, and this without doing injury. There is no irritation or reaction as often in cases of forcing a passage with medicines. This syriuge is an excellent way of washiug waste materials which would remain to irritate and to poison the hlood out of the howels. 'Take as much warn water, with or without soap as you can hold, and retain it as long as possible. It is a wash for the kidneys well as for the bowels. These syringes ar now offered for sale ill our big department-
stores at a very small figure. But I think it is good economy to buy the heavier ones they last rery much if they cost more. They last rery much longer. In my own family I have cured a bad case of chronic catarrh of the bowels by the daily use of the syringe, and without any medicine otherwise.
. Greiner.

SALIENT FARM NOTES

## Pure Kerosene

 ust before uny rosch ose-slug (a small, a most trausparent grecu worm) attacked theleaves. There were leaves. There were hundreds of them on each hush, and in a few days they would have destroyed every leaf. I was "right smart
mad when I discovered them, and owiug t the continued wet weather was rushed with work, so had no time to hunt and apply the usual remedies. Hurriedly filling the pint can of my little tin sprayer with pure leer osene, I sprayed every bush in a few moments, and then went on with my other
work. In the evening I to see how badly damaged they were, and to my surprise fouud then all right, but er slug was dead and gone. That happened two weeks ago, and the bushes are alive and
thrifty get, with never a sign of a slug on thrifty,
them.

It was the quickest and most thorough joh of iusect-destroying I ever did. Pur kerosene will often destroy the leaves of plants to which it is applied, but the little sprayers put it on in such a fiue mist-i that many kinds of plauts will stand it i the day is bright and dryiug when it is put on. To all soft-bodied worms, and, in fact, oseue is deadly. I use my little tin spraye in the poultry-house once a week, giving the perches, nests and walls a thorougl spraying A pint of kerosene will cover a great deal o surface when applied with one of the at omizers, and no mite or louse that it strikes
ever bites another hen. Very ofteu both ever bites another hen. Very ofteu both
lice and mites infest the coop in which a hen lice and mites infest the coop in which a hen and hrood of chicks are kept. I have heretofore destroyed or kept them in check hy burning a crumpled-up newspaper in then, Hereafter I shall do the husiness with my little forty-cent tiu sprayer. If cahhage worms infest uy cabbages I shall try ker will perish and the cabbages will not he in jured.

Weed-seed $\begin{aligned} & \text { Last spring, 1898, I bought } \\ & \text { quantity of timothy-seed that }\end{aligned}$ was said to he exceptionally free from weed seeds and sowed it in my orchard. I wanted the timothy in there to hold up the clove This year I have an immense crop of oxeye
daisy wherever I sowed that seed. Had I examined the seed carefully with a glas I would have seen the trash among it, but took the word of the dealer that it was all right and sowed it. He ought to he compelled to pull out every one of those daisie hy hand. Three years ago I hired a man to said he could get for next to nothing. It appeared to he good, half-rotted stable mauure, and I had him spread it on a small field of timothy and clover. Last summer discovered that there was an average of one yellow-dock plant to each square foot of land that lie manured. The only thing to be done was to plow it up and put it in corn,
I showed it to a farmer frieud and he I showed it to a farmer frieud and he
laughed heartily. "Got more than you paid for that time; but not what I would consid er a first-class bargain!

Flies at Milking-time Flies are here again, the pleasantest job in the world. I milk in a dark stable, hut if one remains in it loug he begius to think of Turkish baths. The stable is on the east side of a barn and the milking is done in the morning hefore the sun heats it, and in the evening the harn shades it long enough to have it somewhat cooled by milling-tine
still, when one gets in there with a cow at a remartabe wemperature rise stahle to mille rate. When I had no dar light gunny-sacking to spread over the coll It reached frou her head down over her tail aud touched the ground on either side of her. Wheu a cow gets used to it she seem glad to have it on, but a nervous or "scary" given a little bran or shelled corn to keep her quiet. Such a contrivance is next to a darkened stable, and after one uses it week he would not he without it for twent times the few cents it costs.

Mistake With Asparagus When strawberparagus hecomes a back uumher and $i$ allowed to grow up and prepare for auothe season. I made a mistake with my aspar agus the past season, and in consequence the shoots were not so large, nor did they
come so quickly as oue would like. In fact, our grass" "ras ouly secoul-rate goods this rotted inanure, out of which about all that was of value lad been burued by the sun nd leached by the rains of last summer. It made a uice uulch, but there was no
strength iu it. Thinking to help it out in the spring I applied a good dressing of nitrate of soda to the rows, hut so far as good
effect was concerned I inight as well have effect was concerned I inight as well have
applied so uucln sawdust. This coming autumn I will do as I should have done last year;, put on a six-inch corering of fresh, strong stable manure as soon as the tops are
removed. Next spring, as soon as hard frosts remored. Aext spring, as soon as hard frosts matcrial ou either side of the rows to walk on in cutting the sloots when the ground is wet and sticky, and also to serve as a mulch
to keep weeds dowu and save labor. 1 really kuew hetter than I did last fall, but I really it would answer. It is always hest, after all, to do things right and thoroughly

Mistakes With Shade-trees made where I mistake, or two of them. I wanted a couple of slade-trees ou the outer edge of the lawn, and decided that they might as well he
fruit-trees and hear something besides leaves ruit-trees and hear something besides leave, as not, so after looking the matter up a
little, I planted two Stark apples. To he sure, they are trees, and they shade the spots where they are, hut they are ahout as oruameutal as old salt-barrels. If I had known what I do now their places would now he occupied by Grimes Golden trees,
These are neat, compact and really ornamental trees, while the fruit is not surpassed by auy apple that grows. Along the path to the gate I deeided to plant another fruitbearing shade-tree, and like a ninny selected a Howell pear. If anybody can see an atom of ornameut about it I should be glad to have it pointed out. The fruit is first-class, but the shape of the tree is anything but fair to look upou. Had I planted instead either a Keifier or Koonce pear I would norr have a tree that would he an ornament to any ground. The fruit of the Keiffer, when properly ripened, is good for dessert, and excelleut sterved, canned or in pies, while that of the Koonce, which is an early pear, is good any way

Plums Wheu I was planting plums I Plums planted two Pottawattamie trees at a reuture, and it would appear that it was
the right thing to do. The fruit is really desirable ouls in its raw state, and one can sit under the tree and eat thirty to fifty at ahmost any time. They ripen a few at a time and drop off as soon as ripe. The skin and the flesh immediately ahout the stone would reduce the mouth of a political orator to half its size in thirity seconds, but the juice and principal portiou of the flesh are splendid. The Burbank aud Satsuma plums are the best I kuow of for cooking. In pies or simply stewed they are very good, tastiug much like apricots. The trees are not ornamental.

Hoeing corn I have heen obliged to go go into the corn-field with a hoe. The rains prevented cultivation while the corn was small, and weeds came up and overtook the fancy to hoeiug lately, and are hacking away at the common enemy. One can get close to the corn-plaut with the cultivator and root out or corer up a weed if it is not directly in the hill aud high as the corn. In that case there is no way of getting it out it will pay to hire uen (but not boys) at $\$ 1$ it will pay to hire men (but not boys) at $\$ 1$
a day to get the weeds out of the hills and a day to get the weeds out of the hills and
rows where they cannot be reached by the cultivator.

Pekin ducess in the Uuited States have proven by far the most profitable of all
breeds wheu raised for market on a large scale. Several thousand young ducks are ofteu yarded ou tive acres of ground-malsofteu yarded ou tive acres of ground-mals-
ing the ground, by the way, intensely richbut the most successful duck-farms have large areas a arailable for the cultivation of greeu feeds for the growing stock-rootrops aud green food of various kinds. Ducks will consume an immeuse amount of green food, and such feeding is considered necessary to keep them in best condition for
early layiug. The most profitable time at which to uarket duckliugs is considered to be when ther weigh ahout five pounds. The, will then be iu the ueighborhood of ten
weeks old and will have cost to raise ahout twenty or twenty-five ceuts each.

Guy E, Mitchell.


## FARM THEORY AND PRACTICE

The Farier's Paper.-The Farm and Fireside goes to hundreds of thousands of readers. The contributors to its columns, selected by its editors, seek to tell facts that will be helpful, and especially do they seek not to be misleading. Occasionally there is a man who thinks that the chance of making money by using some farm writer for his own persoual gain is too great to be missed, and being a
stranger he seeks the shortest war into the graces of that writer. He always has some thing for sale, and what he wants is fre advertising in the reading columns of the paper. It is his belief that if he sends one any sort of implement without charge and without request he has in some way a righ to a favorable notice of it. People should tising columns for advertising, and that reputable farm writers are not for sale anyway A manufacturer has no claim upon a man wben be sends his wares to him without an order, and he can have no claim upon him in any way that would require a reading notice to secure adjustment. It is perfectly legit imate tbat a practical man mention an good implement that he is using in the culture of crops, provided he mention it not for advertising purposes, brotber farmer for particular purposes, as described in the article. But the first thought of the writer should not be to mislead. He cannot notice favorably or unfarorably any wares of dealers for personal ends, and the man who would use hi privileges in such a way is absolutely dis-
honest. We often mention desirable tool honest. We often mention desirable tools
just as we mention desirable rarieties of fruit and grain, but the gift of a tool to a writer for the sake of a farorable notice it could not otberwise get is an insult to an honest
man and will never secure tbe notice from bim.
Mistaker Views.-Some few readers of farm journals bave queer riews of the duties
their benefit, as well as for that of the reader mentioned, I wish to say that the practical ray of disposing of a patent wn agriculcural implement is to have a manufacturer and secure a promise to witness a working test. It is the work that counts. Manufacturers are always after improvements. There are tens of thousands of patents and the ideas are usually impracticable. Manufacturers cannot be fooled with ease. Ther want to see the woled with machine. If it is superior to the worlk of ther macbines they are quick to want it. To one should imagine that a pretty patent r glowing description will have any weight ith a business man. These things are cheap If one has a derice of merit, show what rorking machine can do if that be possible. Any live manufacturer will witness a test hear at hand if he is interested along that line. Show up the merit of the new invenfion in this way, and if that merit be superior the sale is easily made. The inexperienced man is apt to spend some money upon agencies for the sale of patents. I should not do tbis. It means sure expense and uncertain receipts. These people watcb the lists of patentees, and send them enticing circulars. That is easy to do. If they are so sure a sale can be made, tell them to make the sale and deduct all fees when the transfer of patent is made by you. Whost patents are worthless. They are a heary source of loss to many. But a meritorious and novel device is a valuable thing. If you have such do not depend upou reading notices, circulars or advertisements, but go to manufacturers, demonstrate the merit by practical means, and all else will be easy

Sticking to One's Business.-While the farmer may, if he desires, spend some time and thought upon new devices and inrest a little money in protecting his invention with a patent, he should go upon the market alwass to sell and nerer to buy. There are few poorer investments than the patent rights offered for sale to farmers. All over this country farmers have wasted big sums of money in such rights, and yet some others can learn only by experience. The

of a contributor, anyway. Tbey send him by mail or express a new rariety of fruit, veg etable or grain, and expect a careful trial of the same, often in comparison with staudard rarieties, and a full report. They expect bim to spend the time, furnish the stanps and mention the test in some farm paper They expect more than they sloould. Cour tesy in such cases demands that they learn first whether one is willing to take the trouble, and when courteous inquiry is made beforehand the labor is much eas. ier. One man wants you to act as a
sort of real-estate agent, and anotber would use you as a patent agency. All readers sbould know what most do know now, and that is that all farm writers
worthy of the naine are men who are more areful lest they advise to some one's injury than they are of anything else. Tbat is the first care while trying to help. They re ommend that in which they believe, and upon that they rest their reputation and their hope of usefulness
And yet there are cases in which the individual may be helped without injury to wrote me a few weeks ago saying that he had invented a plow with pulveriziug mold poor man and could not handle his patent. Would I describe the plow from cireulars sent me? I wrote the man, but tbe lettcr
has been returned unopencd. I felt sure that if the plow was a good thing the pape would publiih a short, clear statement
advantages over the prevailing styles.
patent-right man has no rigbts to sell tbat the farmer needs. The farmer already has a right to attend to his own business of farming, and wben be neglects it and buys rights that are being hawked through the country by shrewd men, ninety-nine cases out of a invested he finds, when too late, that he has lost hard-earn unprofitable the manufacturer knows bis business, and so it is with the mercbant and the speculator. Erery man to his trade. But if the farmer must bave some side business, do not let its profitableness depend upon a purchase from a stranger of mauuf to make something tbat a shre mauufacturer is unwilling to make. Too many smootb people are living off of farmers, and this will remain so until we learn that we cannot beat a stranger at his own game. If there is a lot of money in a scheme for farmer it is too valuable to the first orviner to be offered to farmers at a sacrifice. No one is hunting us up to give us money. Let's leave strangers alone; they are too hard to find when we would like to have some little point explained. The safe rule is, buy only wbat is needed, buy for cash, and buy only from parties well known personally or by reputation.

David.

## A PROMISING LEGUME

The attcution which is being directed to developing special droughtresisting forage plants which liare been lieretofore solnewhat plaglected In the Southwest, where the eon ditione. In the southest, where conhas developed a number of wild leguminosa Which are peculiarly fitted to withstand
most pent under cultivation. One of the Metcalfe bean (Phaseolus retusus). This bean is a perennial and develops enormous hesly roots, oflen growing to the size of pounds, regions are supplied with some special prorision to enable them to withstand drought and tide over their growth from one rainy

season to anotber. In the Metcalfe bean the root is a great storehouse of water. The top of this fleshy root is found six or seven inches below the surface of the ground; this will allow the soil to be thoroughly plowed or cultivated without danger of destroying the crowns. The vines grow in all direction from the crowns, mush from the crowns, much after the manner of the wild American morning-glors; tber grom eight or ten feet, or eren more, during the first season, and even in the wild state produce a large amount of forage. The leave are thick and heavy and well adapted to withstand heat. Under cultiration tbe Met ealfe bean shows great improvement ove the wild plant. The quantity and quality of the forage is increased with ordinary farn culture, and the bean sbows capability fo great development with one or two years cultivation. The forage can be cut twice season.
Like all leguminous plants, this bean is a gatherer of free nitrogen from the air, which it stores up in its roots and leares. It forms a highly nitrogenous food, and the beans themselves are rich in meat-producing com pounds. Under cultivation the beans in crease from one to two in number, and from two to three in a pod

Gey E. Mitchell.

## BETTER CHEESE

If the knowledge of certain branches of bacteriology is necessary to the butter-maker aud the general dairynan, and becomes more and more so as we recognize the rational, scientific basis on which all dairy industries must rest, it is not less important in cheese-making.

Slowly but surely the pure-culture system is entering into the industries which are based upon the growth and activities of bacteria, molds and other microbes. It is the system used by farmers and horticulturists from time immemorial-that pure seed will produce a pure crop. Knowing tbat the production of butter and cheese is dependent upon living bacteria; that the aroma-"tbe Havor which governs market prices"--is produced by bacteria; that certain definite kinds of germs are indirectly the makers of good butter and good
cbeese, we cannot wonder at the eagerness that pro-
gressive dairymen manifest gressive dairymen manifest entific studies and innorations along these lines.
Duclaux, the Frenchman, first undertook to study the dependence of cheesemaking upou germ life. Tis first important result was that one of the
characteristics of cheesc-making conists in the render ing soluble of
s led him to con lucle that such bacteria as were active in this transformation were also the chief agents in the curing of the checse. This lew has been somewhat modified by Freulenreich, who proved that the lactic acid bacteria would cause the solution of the asein, provided there was not too much lacheese the letie acid bacterin are indeed
ic acid present. In the ripening of Swis of main importance.


## Ripe Pons

.

The curing of all varieties of firm cheese product properly result in the formation of a after-curing or storing there is formed certain aromatic substances; the cheese receives its peculiar flavor. It bas been proven for the Swiss and the Cheddar cheese that during the curing proper the number of lactic Dacteria is slowly decreased, while the after-curing is characterized by the development of distinct forms of flavor-producing germs.
Soft cheese contains, on account of its arge contents of whey, too much lactic acid pacer $f$ the eariu. Here the rapid transforma he caselu is caused by certain mold. As in most other dairy countries much of our cheese lacks both uniformity and fine flavors. Imported cheese continues to be favored by people of cultivated tastes and ample means. The prices on our cheese markets are far from being satisfactory,
One of tbe chief means of obtaining botb uniformity and more and better flavor in and be to examine What microbes are active in the curing of tbe cheese, and to submit these forms to pure cultiration. By addiug such pur irregularities are found in the cbeese we should at lengtb succeed in rendering our cheese-rooms reritable bomesteads to the bacteria wbich are active in tbe production of a
product
Professor Storcb, of Copenhagen, has found that the best creamery cheesethe cheese that ap pears richest in taste without con taining the largest amount of fatholds the largest amount of water Our attention, then, should be turned toward tbe tion of inereasing tion of increasing water in such cber as is too dry and meager. As all mechanical processan all temperatures in volved in the making of soft cbeese can be easily mastered without detriment to tbe product itself, this can be easily done. In the case of firm cheese the percentage of water-the amouut of wbey-is linnited sometsbat hence an excess of water will gire rise to faults, sucb as soft fault curd, etc.

Tbe use of pure cultures of good cheese bacteria would not, of course, obriate me chanical difficulties.
 let if the germs productive of a good curd and a fine flavor were present in large numbers, fresh aud vig. orous, the tenmperature during the process o fermentation might be raised, wbich, with a larger auount of water in the curd, would tend to shorten the period of curing.
Thus, tbe acquirement of some knowledge along the lines of dairy bacteriology might give rise to larger and better rields and a give rise to larger and better yie
shorteniug of the period of curing.

The introduction of the pure-culture sys em will play its most importan manufacture of soft cheese. The euring of the latter camot be satisfactory except through the ageucy of certain molds which may or may not inhabit the curing-room, but which could be introduced in pure cultures into the curd itself and into the curing-room. such knowledge and iusight as is neces sary in bringiug about such reforms as these docs not lie above or below the average cheese-maker. The map of our country is dotted with agricultural schools and lab. oratories where such questions as these are good text-bools may be had from which he who does not know may learn. And we no donbt all agree that he who will not learn can lave no place in the developiuent of the rational dairy interests.

$\left\{\begin{array}{l}\text { NOTES FROM } \\ \text { GARD } \\ \text { GARN AND FIELD }\end{array}\right.$

T

## e Arsen

 of Paris green has not often if eve I usually have paid twenty-five cents a pound for it. At one time I got it pound. When it only takes one pound or so to clear an acre of potatoes from potatoou account of cost. The objections to this arsenical compound are of a different charac ter. I have tried to find a suhstitute only because Paris green does not dissolve inwater, and is ouly with difficulty kept in suspension. The new insect-killer which I now use, namely, arsenite of lime, as spoken of in last issue, does not meet with this
objection. The stations have told us that it is also much cheaper than Paris green, and surely it is if you can buy arsenic at ordi-
nary wholesale rates. If you go to the ordiuare drug-store for it you may have to pay forty cents a pound for it, and as we are told to use about a pound of arsenic
(made into arsenite of lime) to two hundred gallons of water or Bordeaux misture, the same as when using Paris green, the home made arsenite of lime may, after all, he much about that if the arsenite will work so much more satisfactorily than the green. The average farmer has little chance to huy from a wholesale house. I went into
wholesale drug-store in Buffalo the other day, and asked for a few pounds of arsenic. At first I was refused to be served, not being
a retailer. But my representation that I a retailer. But my representation that I the arsenic in larger quantities for agricul tural purposes, finally won the drug-dealer a pound. That, of course, makes my poison rery cheap. I have also fouud that the green (one pound to two hundred gallons) is rather weak. I like to see quick effects. When I apply poison to my potato-vines for three or four days longer hefore they finally give up the ghost. For that reason I have preferred to use one pound of Paris
green to every serenty-five or even fifty gal lons, and thus to put a rather sudden stop to all further destruction of the potato foliage. I have so few potato-hugs this year
that I may not he ahle to tell rery soon what exact proportion of the arsenite of lime will be needed to give the same prompt relief. I beliere, howerer, that the officially recomdred gallons) will he ahout right. If I make it a little stronger it will do no harm. Of course, the arsenic is much stronger than it compound, Paris green.

Care with Poisons.-The one thing which I do not relish about this spraying liquids standing and lying ahout on the premises. I have little children, and childreu will get into all sorts of scrapes. I do where the littlo Where the little folks cannot get at them. a box or drawer that can be locked. All pack ages contaiuing poisonous suhstances, such as chlorid of mercury, etc., all properly labeled, should be deposited into this receptacle or fully locked all the time. A few days ago I made a kettleful of arsenite of lime, and it while it was left for an hour or two on a hench in the "workshop" (a room in the harn), I set the kettle up high and dry on
top of a large grain-hin supposed to be tight all around (to keep out mice and rats). The opening the lid to notice the kettle, and on opening the lid to get oats for the horses,
turned the kettle over, spilling the poison ous contents all over the top of the hin Unfortunately there was a knot-hole in the
top, and the poisoned lime-water poured right down on the oats. I happened to come along a few minutes later, and, of course had all the oats shoveled into bags to be set
out of the way, and later on to be sowed with peas for late fall feed. But I might hare lost my horses hy the hlunder of learing of hours. As it was I escaped hy a couple

Proper Use of Tools.-The improve ment in agricultural tools is going merril
some new or greatly impersed implement that makes our work lighter or more satis
factory. But the soil tiller must do lis part, by learning to understand the peculiarities of the tools he works with. In fact, it has become absolutely necessary for him to he pretty good mechanic hinuself. Many a good tool is put aside as no good and left standing around unused simply hecause it has not done exactly what was expected of it in the dirst cumsy trial. Mhave just had some such are now so complete and almost perfect that it seems no further improvement is possible The manufacturers of the "Iron Age" implements furuished me a drill which can be used both as a hill and drill dropper. I tried it as a hill-dropper for planting sweet corn,
but soon found that the shut-off was not but soon found that the shut-off was not
working properly, so that the machine clogged more or less. I set the machine aside for awhile, thinking that the manufacturers had made a mistake in certain parts that needed rectifying before the machine could be expected to do good work. A few days later, having a little time, I made a more thorough inspection of the offending part, aud soon found that the whole trouble was due to the fact that the wire-coil spring on the shut-ofi would bend in such a shape as to rub very lightly against the casting (seed-hopper), thus preventing the full opening of the shut-off. The trouble once found the remedy was easy enough. One of the
common douhle-pointed carpet-tacks driven into the handle inside, a few inches from the hopper and over the string attached to the shut-off, so that the direction of draft of shut-off was slightly changed thereby, remedied all the trouble. I am now using this excellent tool right along, and am highly pleased with it. Similar instances happen every day. We must get fully acquainted with our tools before we can expect them to give us their best service.

The Difference in Lime.-In my last communication I spoke of the need of get-
ting a good quality of lime for making the Bord good quality of lime for making the ase some kinds of hurnt limestone that if we ter grades), less than three pounds of it will he needed to each four pounds of copper sulphate in order to make the standard mixture come up to the ferrocyanide of potassium test. If we go by weight only, the orthodox rules are to use four pounds each of lime and copper sulphate. If we go by the chemical test (the solution of ferrocyanide or yellow prussiate of potassium) we will he apt to use much less lime. Perhaps it may be well in any case to use an excess of lime; so if
we throw in a little extra lime after the we throw in a little extra lime after the
mentioned solution fails to give the brown spots in the Bordeaux mixture, it may be all the hetter

The Freit OUtlook.-The fruit outlook in this vicinity does not appear to he quite as favorahle as it seemed a few weeks ago. The apples have set rery sparingly, some apple county will surely not flood the markets of the world, or even of the state, with winter fruit. Cherries are few; peaches almost none, and the rot is already attacking the plum. The fruit of the Bartlett and other pears is hadly affected with scah here and there, and altogether the earlier promise of plenty of fruits will not he fulfilled. To judge from appearances in this part of the country, all fruits should bring a good price this year. And the same seems to hold good of the products of the vegetahle-garden. As
for myself, I find a better demand in for myself, I find a better demand in
my home market than ever, and shall continue to plant. There is still money in gardening.

## FRUIT

The importance of increasing the home supply of fruit is discussed more or less from one end of the year to the other without apparently affecting present conditions. grows parts of the country the fruit crop the crop must fail sooner or later because there appears to be no interest in renewing there app
A young and thrifty farmer exclaimed: I sold apples last fall at two and one half March 16, 1899) the a harrel, and to-day (March 16, 1899) the same varieties of apples are selling at retail at seventy- cents a peck. But I'll go hungry before I'll sell again for the henefit of the middlemen. I could hare
stored my apples and taken that profit, mystored my apples and taken that profit, my-"
self, but I wanted money and had to sell." self, but I wanted money and had to sell.' for "show" and "company," I paid fifty cents for twelve apples.

American fruit is a luxury usually at any
time of the year for the greater part of the people, and apples ought to be common apple than most consumers appreciate

## harvest-time on some farms apples are

, and the farmer may complain that there
s little profit in hauling to market. But man with a grain of speculation (call it when prices are down does not go to marke when prices are down or when the market ferred to, he must hare immediately what he can get
Properly stored, some apples may be kep almost to the time when apples come again
I have had Baldwins and Greeuiugs in May and Russets in July. There is no reaso why the farmer should uot hold his apples as he often does his potatoes. There is no risk in it, provided the apples are ripe and
sound and carefully stored. It may he stated sound and carefully stored. It may he stated positively that until conditions change, apples will be high in price after January take eagerly almost any quantity of good apples.

Throughout New England and the central and northern helt of this country, east of the Missouri river (and perhaps west of it is good apple-tree ground, capable of pro ducing apples enough to pay the nation lands to-day, some of it so strewn with rocks and houlders that the earth appears to he covered, now producing nothing (except tax bills), wrill nourish apple-trees of certain ra rieties.

Ten years ago a farmer was advised to set out apple-trees in a rocky pasture where
sheep would starve. Against his better judg sheep would starve. Against his better judg without he thought, he set out an orchar grew and flourished, and to-day the tree produce good fruit
Unaccountable is the fact that farmers liv ing on the same farms twenty, perhaps fifty years, have not set out a tree except an occaremaining on the same farm long enough to grow an orchard that might yield every year grow an orchard that might yield
There ought to he an arhor day or several arbor days on every farm every spring and fall. But if you cannot or will not set out tree, drop seeds. Better a tree with nuhhin fruit than no tree and no fruit.

## George Appleton.

## (140 ORCHARD

## EFFECTS OF SPRAYING APPLE-TREES

In the report of W. M. Orr, the superin endent of Cauadian spraying experiments, is cited the effects of spraying apple-trees
with Bordeaux mixture, in 1898: Snow with Bordeaux mixture, in 1898: sprayed, 64 per cent clean; unsprayed, on per cent clean. Ben Davis, sprayed, 100 pe cent clean; unsprayed, 28 per cent clean Wagener, sprayed, 96 per cent clean; un-
sprayed, 9 per cent clean. Spy, sprayed, 100 sprayed, 9 per cent clean. Spy, sprayed, 100 per cent clean; unsprayed, 36 per cent clean Greening, sprayed, 88 per cent clean; un sprayed, 24 per cent clean. Rihston Pippin sprayed, 90 per cent clean; unsprayed, 80 per cent clean. unsprayed, no clean fruit. Thi orchard had never been sprayed before.
The effect on the foliage was plainly no ticeahle all season. The leaves were frest and had that glossy appearance which indicates growth. The bark was smooth, and looked like the bark of young trees, the moss and roughness on the hark almos entirely disappearing, and the trees have made more netr wood than for several years past. The fruit was on the sprayed trees as nearly perfect as it is reasonahle to look
for. The Bordeaux mixture used was made as follows: Copper sulphate, four pounds; fresh lime, four pounds; water, forty gallons To this in every case were added four ounce of Paris green. On account of the law which forbids the spraying of fruit-trees when in applications were lost.

## inquiries answered

Injured Pear Foliage.-C. E. W., Bellefont. Pa. The injurs which you describe mas me rery mnch in determining what has caused it if you would send me specimens of the injured parts for examination. Such injur:
might be due to insects or fungus disenses
Grapes Dropping off.-M. E. A., Tar saw, Va. I tbink probahly tbat your grapes
be prevented by spraying with Bordeaux
mixture inmediately after the fruit has set,
alld twice thereaftir at iuterals of about alld twice thereaftrr at iutervals of about
three weeks, and afterward spray once o Resetting Blackeap Rasplerries.-
D. B., Uniouville, Mo. Blackcap raspherries may be reset in the fall without injury pro-
vided the work is carefully done; the tops should be cut back sererely, and on the ap proach of wiuter they should be ridged up, coveriug the crowus about six inches. If a
little mulch is added, so much the hetter This applies to old plauts and not to newly
rooted layers, which are very tender, and lf set iu the fall are quite apt to he winter-
killed. The tops of old plants should he cut back so that they will not be over twelve

## Wrapping Trees-Mulch of Castor-

 Wean Hulls.-M. A. L., Floyd, Ohla., writes orchard wrapped up all summer will injure trees. - What is thought of a mulch of cas Reply:-By wrappings around trees I take it you mean coverings to protect the trunks from sun-scald. In Minnesota, where sun scald of the trunks and lower branches ofbox-elder, soft and hard maple or hasswood, as well as of apple-trees, is common it has heen found that the wraps hare done no apparent harm when left on the trees all sum mer. Of course, the form convenient place for the larrae of the codling-moth to "spinup,"
and may thus he used as traps for them. In some experiments made the trunks were sur rounded with hoxes filled with soil, and no summernited from leaving them iu place all fairly satisfactory mulch for trees and bush fruits.
Red Rust.-J. D. H., Oklahoma, The spec imen leat of hlackberry received from sou is disease also attacks the hlackeap raspherry and mar he vers destructive. Some rarl it tban others. The old Kittatinny hlackherry was discarded from many sections on accoun of its susceptibility to this disease, and has heeu replaced by the Snyder, which is less liahle to it. The only practical remedy which has heen discovered is digging and hurning tbe infested plants. These can he told even infested plants the leares are smaller and hare a pale green color that easily distin hare a pale green color that easily distin
guishes them from those that are healthy. It is possihle that spraying with Bordeaux mix. ture will prerent infection, but there is no prospect that austhing you can apply wil vers sorry I cannot give rou more encourage-Phylloxera.-G. W. B. Vines that are grown from cuttings are just as liable to
hare their roots diseased as those that are grown from lasers, After they are estahlished them, since in either case thes are hnt rooted pieces of the parent plant. But some rari-
eties of grapes, for instance, the Europeau eties of grapes, for instance, the Europeau
sorts, are so liahle to injury from the Amer ican grape-root louse, known as the phylloxera that thes cannot he successfully grown on their own roots in this country east of the
Rocky mountains, hut must be grafted on our Rocks mountains, hut must be grafted on our native river grape or other native sorts. This
root-louse was introduced into European rinerards over tweuts years ago, and has finally hecome so ahundant as to make it their rines on American roots. The same is true of parts of California, where it is now regarded as unsafe to depend on European grapes that are on their own roots, for the phylloxera has reached that farored section grape-rine roots, hut this is the most common.
Irrigating Orchards.-P. A. W., Finlow, fruit I It your soil is not well adapted to make hare but little faith that you will make any great success of fruit-trees hy irriso as to keep a dust hlanket on the land four inches deep, and hy occasional plowing in a crop of corr-peas or crimson clorer, that you
would seldom need to irrigate. But there will would seldom need to irrigate. But there will irrigation to good adrautage if you had conrenient arrangements for it. I doubt very much ahout sour satisfactorils direct from the thirt. think it would he necessary to put in a storage reservir in order to irrigate successfully.
To sum up the matter. I do not think' it will pay to irrigate for winter fruit-trees in rour section, since you are rery certain of good crops on good fruit land when kept properly cultirated. I do not think you mould get the water fast enough from a ram to make it
practicahle to irrigate thirty acres with it practicahle to irrigate thirty acres with it,
unless you had a storage reservoir. I know of unless rou had a storage reservoir. I know of no real first-class work on irrigation adapted
to sour conditions. but think you had hetter get the following puhlications from the United States Department of Agriculture, Tashington, D. C.: Farmer's Bulletin No. Wa, beiug on Irrigatiou iu Humid Climates Totes on Irrigation in Connecticut and New Jerser, it beiug Bulletin No. 36, of office of experiment stations.


FRUIT-GROWING AND POULTRY-RAISING
A UIT-FARM upon which is grown enous compound.
mall fruits may not offer rery the egg phosphorus, in the shape of phoseeping poultry, but if it be con sidered that while a limited period of the
vear is deroted to bearing and ripening fruit quite a long interral interreues from the ending of one season to the beginning of the occupancy of the ground deroted t rines by poultry. It is true that poultry ripening fruit that they cau reach, and at
such periods the range to them of the fruitpatches is not arailable, and the matter Let us examine a fruit-farm upon which ar ries, apples, peaches, pears, grapes or any fruit-grower will expect good results unless he has his orchards of standard trees free orchard is therefore racaut so far as the land is concerned; that is, it is occupied
only abcre the reach of fowls. If partition fences be made, which can be cheaply done chard without hindrance in any manner to the growing fruit. The fowls are beneficial into bearing sooner than other fruits and erop is off let the poultry in. This gires them may still be done, for the freshly turned in season will be raspberries, then blackberbe allowed to go, and the occasional change from oue field to another will be the means
of seeuring more eggs and healthier poultry. The orchard is then still ready for them at
any time, and by taking adrantage of all the circumstanees a poultry and fruit farm may
be combined. No business man who is in possession of two or more floors of a building gained from the upper stories, nor should the fruit-grower allow the land to be useless
while the trees are bearing or idle. Fowls do not deprive the land of anything, nor do they require any more eare in the orehard
than when located elsewhere, but they keep eatch inseets, both on the trunks of trees, and amid the grass and stubble. Nor is enriching the soil and feeding the growing done ly the fowls theinselves during their constant ramblings. The proper utilization
of fruit-farms may be carried further, for bees should be included. They would not is to the economical applieation of every purpoultry, eggs and honey-may be raised flict with the other. A good, well-managed flock of fowls will easily pay all the expenses prove profitable

FEEDING PROPER MATERIALS To take a view of the luatter of feeding
we may well consider the purposes in view.
Eggs, of course, are what all are striving
for, and one must fced for them. Corn will
not do so, as it is too fattening, and hens
cannot lay on food rich in carbon if the
food is deficient in nitiogen and phosphates.
It is an utter impossibility for hens to lay
when fod on corn and nothing else. True,
they do lay on most farms, more or less,
on a corn diet, but they pick up food lyy
foraging. What is intended here to imply
is that fowls if deprived of liberty and fed
on corlu alone cannot produce eggs for a
great length of time, becanse complete chg
material will not le prescnt. Eren when
running at large they do not lay well on
corn, nor will they give satisfaction. An
egg contains a quantity of carlon, which is
stored up in the yolk, but the white is conu-
upon which is grown enous compound. There is also stored in
posed almost exclusively of albumen, a nitrog binations, all of which materials serve to furnish flesh, bone and feathers for the chick should it undergo the process of incuchick should it undergo the process of incu-
bation. As corn furnishes material for the solk, an excess of such food produces fat and this interferes with the laying qualities by inducing disease of the organs of repro-
duction. To obviate this one should give a duction. To obviate this one should give a
rariety of food, and nothing is so conducive to health and laying as clover. Clover is rich in nitrogen, in the shape of vegetable albumen, and it is almost necessary at all seasons.

## SUMMER HINTS

There is nothing so cheap or effective as air-slaked lime in keeping the premises in good sanitary condition. Liberal use of it ceded that it is not a good plan to give more food than the chicks will, at each meal, quick y partake of with keen relish. While this is rery true, generally speaking, there will be no harm done by haring a feed-trough in a cool, shady place every other day filled with cracked corn, so the chicks that are ten will, if they are to be fatted for market. They will not partake of it too freely, and often the treat will be just to their hiking properly balanced ration for the day. The dust-bath for the flock is now especially needed, and freshly spaded earth where there is ample shade also will afford the fock benencial enjoyment. Dust and grease vermin that infest poultry. During the warm months it requires every method and poultry-yard. Neglect quickly tells and increases the trouble, making more than twiee the work to do what should first hare been done properly

## FARMERS AND THE SUPPLY

Large numbers of chickens, ducks, geese and turkeys are constantly required to sat isfy the market demands of the United States, and surely this branch of the busi-
ness is conducted to no great extent, nor is ness is conducted to no great extent, nor is
this supply furnished by the class of modern fowl fanciers. The farmers are the people followed up the business in a regular but moderate way all their lires, raising but a ally, in most cases are the class of poultry breeders who supply our people and markets eaten this desirable food, and with the eggs very useful adjunct in the profession, enter-
prising and wide-spread class of workers for prising and wide-spread class of workers for Amerieau poultry that has obtained a place farmers we must look for this supply of poul. try and eggs.
GOOD PRICES FOR DUCKLINGS The season for spring ducks has opeued, and the quotations the first week in May were twentr-five cents a pound, and they
even now bring good prices. What is termed "spring dueks" are ducks of this year's hateh and which weigh about three or four pounds they are frequently sent to market weighing nine or ten pounds a pair. It ought to
pay to raise early dueks when one ean get orer two dollars a pair for them, especially

## duek meat does not exceed six cents.

NOTES FROM CORRESPONDENCE

## well. Last month I got $\$ 10.38$ for eggs. This month I may not get much more than half

 that amount hecause I have set a number and middlings aud bran. I would like to know midna to keep SO Plymouth Rock hens for $\$ 21,95$how a sear. Does he have a run for them? What
does he feed? How many cockerels does he keep for 80 hens? dre thes all in one flock? Bangor. Pi



S14.50 Fay ${ }^{30}$ FREE TRIAL Springs, Ill, Writes: "I have six hens and
one eockerel. They are in a pen serentr-fire
feet square. are fed oats. corn and shclls. The
cockerel is last jear's batch. The eggs do not

## Reply:-It is probahly due to the exclusir

 grain diet. Lessen thewith meat aud greeu food.
Pieking Feathers.-L. A. A. G. Canon City
Colo, writes: . What is the culse and

Reply:-It is an aequired vice, due usually to overfeeding and Idleness. Such focks are
uuprofitable. The only cure is to separate them or use some meehanieal contrivance

Liquid raint. F . New Boston Juch
Liquird Paint,-A. T., New Boston, Mflch.
Writes: Can you qive a recelpt for making
liquid paint to appiy to the roosts so as to Reply:-The "liquld paints" on the market
are proprietary articles, hut are ncarly as


## Record of a Salall Flock, -I am a suh- scriher to the Faral and Fireside and I like

 $t$ very much. I am interested in poultry and perience I had with hens. The first of April and ther laid just 100 eggs from April 7th to May 7 th. My heus are Plymouth Rock orn-meal, ground oats and table scraps,A Tear's Record.-I will state what I did With my chickens in one rear, 1898. I combrought me $\$ 72.15$, none at faucr prices. et $\delta 24$ eggs, hatched 347 chickens, used about me $\$ 24.30$. I kept no account of what the ggs we ate (four in the family) cost, hut we rell for hatching, as I hare done hetter, but used an incuhator operating it twice with 400 equrs and only 90 chicks hatched, but think it was partly my fault. The eggs were Bnセfalo, Ind. H. M. M.

Lead-porsoning.-Some vears ago a he of a hamk was seen in the sard. She seemed unable to use her wings, and died in a few
days. On examination there was no mark of injury externally, but a pistol-hall of conical shape was found iu her gizzard. Since then urn pale and lose the use of their to droop legs, more or less. If thes live many dass pear curred more than usual. Almost inrari found in the gizzard. Mry rule for some wear sjmptoms of this sort, as I did not have time White lead and otber paints containing lead troduced in their food, and rain-water drank from leaden ressels mas hare the same Whitesrille,

## INQUIRIES ANSWERED

Lameness of Duclis.-B. W., New Midhecome, lame last rites. "ne of my drake another has no
beame lame. What is the remeds?" REPLI:-Turn the dueks on a grass-plot,
giving no food except that seeured hy them in foraging, as the diftieulty is prohably due to Cross.
Cross-lureds.-H. D., West Fairlee, Vt.
Writes: "What would he the result of a cross
with Brown Leshoru hens and Black Spanish male? Would it inoprove their laying qual REPLI:-Nothing is gained by erossiug, as It destroys the eharacteristies of hoth hreeds
the offspring heing inferior to the parents.
Rape for Forrls.-R. H. Mr, Lakerille, N to drrarf Essex rape for fowls. Can it h
fed to fowls in winter, and how is it
REPLY:-It helongs to the cabhage family and is relished hy fowls. It remalns well
into the frost period and mar he cut and chopped for the forwls at any time.

Spges Not Hatching,-J. A. M, Bluf

ents large pronts. No money in
drance. WARRANTED 10 YEARS




THROW AWAY YOUR HAT PINS The Ideal osenc emmislon (adding a gill of crude earholle
acld to al quart of the creamy cuunlsion) is

|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  | Hat Fastener ls a perfect devire for hold.

ingthe nat on the liead wlith.
out a pin, no Hatter how
Juet the thing for cyclists, in fact. every lady, young or
old. Price 25 cents.
IDEAL mail. Agents ranted.
DASTENER
TYPEWRITER HEADQUARTERS

FINE FARMS
FOR SALE

## A FARMER'S OUTING

## [continted from first page]

 outside of the tent door and keeps through the dark hours a ceaseless vigil. Occasionally there is a low growl or a shatp, angrybark, for over the hills there are cojotes bark, for over the hills there are coyotes
lurking. The horses continue to graze not far from the tent, and from time to time send forth a loud snort or stamp the ground. The cow announces her presence by an occasional explosive puff from her nostrils or a low moo; all of which night signals have a familiar and friendly sound to the occupants of the tent whenever they momentarily wake from their slumbers.
In the morning all awake fresll and reinvigorated and the journey is continued farther and farther into the great labyrinth of hills. For days they may wind through valleys and over hills that give them from time to time


Trout-fishing in the Rockies
try, the lower hills and the far stretch of
plains to the eastrard, and the great snowy ranges to the westrrard. There are long pleasant days upon the road or in camp, in the outing all return gladly homevard; and the outing all return glady homervard; and hilers tate up their various burdens again with light and cheerful hearts.

## SUMMER-PRUNED RASPBERRIES

It is a common practice among raspberrygrowers to pinch back the growing canes in order to force the development of laterals for fruit production. The wisdom of this practice haring been douhted, two series of xperiments independent of one another rere conducted in order to prove the matter. It was fouud that the following effects were rue alike of both red and hlackcap varieties. The stumps in the pruned row were more numerous than in the unpruned, and most laterals had been pinched back aterals had been pinched back. As might hare been expected from this and from the well-known fact that the larger the number of canes the poorer (as a rule) the fruit, the yield was actually less where the canes were pinched hack and least where both canes and laterals were pruned.
The raspberry is peculiar in that the canes die hack almost to the root-crown and are sloughed off there; the lower portion not only lives, but gives rise to the new canes. Therefore, since the young caues are really branches and come from buds in the same manner as the laterals higher up the stem, pinching the top would naturally tend to increase them by stimulating the buds from which they spring.
It seems hest from these two series of experiments to avoid excessive summer pinching and to rely upon thinniug the stems to a small number in order that the number of fruiting canes many not increase to such an extent that the development of a good crop
might be prevented.
II. G. Kains.

## REMEDY FOR SAN JOSE SCALE

I notice that in the May 1st issue of the Farm and Fireside that the "lime, salt agaiust the San Jose scale extensively used agaiust the San Jose scale in California is
recommended for use generally. As before recommended for use generally. As before
stated, in California this wash is stated, in California this wash is largely and successfully used, but in the East it has very rarely been used with any degree of success. Both this and the resin washes, also used in the West, kill the scale-insects by forming a thin, varaish-like coating overthe scales, so that the young are unable to disengage themselves from the parent scale
or are killed br the caustic mroperties of the coating. In those parts of Califormia wher these washes are used no rain falls for sev eral months, so that a sufficient period elapses during that time to prove fatal to th scales. But here in the East, where the at mosphere is much more moist, it would he
hardly more than a couple of days before the caustic properties of these washes would be destroyed.
The hest remedy yet devised for use in the East is whale-oil soap. Two pounds of this should be dissolved in hot water; and it should be sprayed on the tree at this rate while still warm, applying it in winter while the tree is dormant. There is no doubt ahout this killing the scale, as the canstic potash in the soap eats through the scale corering and then with the oil proves fatal to the insect beneath. The only point to be carefully observed is to he sure that the carefully observed is to he sure that the


If you are suffering from any SKIN DISEASE or IMPURE BLOOD,


## SULPHUME

will cure you, quickly. Price $\$ 1.00$ per bottle express prepaid.
SULPHUME is dissolved sulphur, and will cure all skin diseases. It gives the benefitts, at your home, of Sulphur Springs. For Rheumatism and Weak Kidneys it is par excellence.
SULPHUME SOAP is the only soap in the world made with liquefied sulphur. That is why it is the only genuine Sulphur Soap. It has no equal for the toilet and the bath. Price per box ( 3 cakes) 75 cents, express prepaid.
A trial cake mailed upon receipt of 25 cts SKIN BOOK FREE
Drop a postal card and we'll mail you our Sulphume
Book ion tial yor will find solid facts about the care of
your skin and blood.
Your druggist can procure Sullphume preparations from his jobber, without extra charge Sulphume Company, 148 Marine Bldg, Chicagoi had on your face?"
"Gone, my darling. Sulphume and Sul-
FARQUHAR RAKE SEPARATOR


Farquhar Vibrator Separator


Farquhar Celebrated Ajax Engine
 quar's threshing engine
are the most perfect in nse


Pennsylvania Traction Engine



## LADY AGENTS

Desiring a permanently proftable bnsiness connection
shonld write immediately for our latest offer. W Shonld write immediately for our latest offer. We
fnrmish new material FREE, as needed, and to spectal
ability we accord special rates. Ladies have made $\$ 55$ in 58 hours' canvassing. This is a great opportunlty.

MENTION THIS PAPER WHEN ANSWERINC
ADVERTISEMENTS.

WE SAVE FARMERS 40 PER CENT | OURTHER |
| :---: |
| ferlures |

We sell you direct-Actually pay you salesman's expenses aud agent's profit. Write for
free sample and book.
free sample and book




VETERINARY


Idaho. Please consult ausirer giveu to H. S
$\square$
of swine-plague, or socealled hog-cholera. It
is therefore to he presumed that it is
$\square$
$\qquad$
$\qquad$

[^1]acids. If sou had considered it worth while
to give a more explicit description of ronr
case I might hare heeu ahle to give rou a
more satisfactory ansmer.
A Tumor and Lame.-T. A. McA. An-
gelica, Wis. I have ms douhts whether there is ans casual connection hetween the lame-
ness and the large dangling tumor on the
breast of the horse. The latter, it seems to me. can he remored onlr hr a surgical opera-
tion, and the former surelr must first be hefore ans treatment can he prescrihed.
Distemper.-C. T. MrF., Lumberton distemper. the same. ahore all, needs rest, and he treated hr a competent reterinarian neglected and rou continue to emplos the hly mar survire, hut will soon he past recorery and he worthless.
Looks Like Tuberculosis.-E. M., Kinma. Pa. The case rou describe looks like it the tuherculin test applied not onls to the cor that lost her calf and is conghing, but
also to all other corrs sou mar happen bare, hecause where there is one case in herdificulty to hare it applied in vonr state neighhorhooū who can do it, write rour stat
$\qquad$ Jefferson, Ohio. Loose or separated horn will nerer again unite with the fleshy parts he neath, and therefore most he remored with a harp hoof-knife. If this is not promptly done of the new horn. To prevent the latter to strict cleanliness and a good, well-applied bandage is necessars. I adrise rou, particcall on rour local reterinarian and let him

## Crippled.-E. T. P., Wroming. Tis. The

 whether of rour inquiry leares it in douht are crippled. If it is the former it is prohable the increased draft npon the resources of theorganism, caused hr the nursing of the pigs, late, feed food rich in phosphates, lime salts and nitrogenous compounds, and aroid feed-
ing sour slops and ans food rich in acids. in order. Also see answer to B. W. L.. Al-
toona, Kan.. in present issue. Osteoporosis.-H. B., Blountstown, Fla.
Osteoporosis, or so-called hig-head, in most cases at least, is nothing more nor less than
actinomrcosis in a jarthone. and must be considered as incurable if the hone is alread.
honercombed. It is claimed by certain par
ties that iodide of potasslum giren internally
 if the disease (or the morbid process) is ret
in its incipient stage, but the damage done by the continued use of the iodide of potas-
sium to the animal organism also must he taken into consideration. and the expense is Foul Sheath.-A. V. D. B., Green Bar.
Wis. In "foul sheath," as a rule, the horse
urinates in the sheath. The nrine in conmemhrane of the sheath soon decomposes
and assumes corrosire properties. Thus the membrane will be attacked and become sore
swelled and ulcerating, and as a consequence
the stricture in the sheath will increase, mak warm water, and then disinfect the same with same tlme is remored hy means of a surgical
operation, which to describe will not be nec-
cssary, as it has to be performed hy a reter-
$\qquad$
$\qquad$ "hunch"" (has a layer of fat on each side
of the rump, of more probably, on the hips knorr of any "teaswatcr" disease. Or may o impress upon you their superior knowledge
of the principal progeuitors of tbe present


| BIILOUS- |
| :--- | :--- | :--- |
| NESS |




Join the American Watch Club







$\qquad$



Athe celebratlon this afterdion sTradded about sereral nn-
dried forks stimg aloof in one red aud water-soaked
band. While she eyed Uncle Joh with sharp curiosits. He was selecting, with some crepit head-gear that adorned the nails behiud the kitchen door. Hi
Phoehe's snspicions.
His usual every-das affair, a hattered straw proximity, hut was passed orer slighthgly. He took down his second-best, a hrown felt He took down his second-best, a hrown felt
shape.
"I'n hard up for top-riggiu', Phoehe," he
he remarked, with disguising nonchalance, dent-
ing an imposing crease iu the flimsy hrown crown, and twirling it about inspectively on his forefinger.
"What's th
"What's the matter with your straw? I don't see nothiu' the matter with it," ques-
tioned Aunt Phoebe, suspiciouslr. "Is that tioned Aunt Phoebe, susp
-r." was the reluctant admission; "that patch is all right; but you see, my hair's got half hold it. I thought this hrown felt would melibe stick on better." He ran his clumss fingers through his gray mop with at medita-
"Mnst be it's growed considerahle since yisterday. Tour hat seemed t' be sufficient then,
I notlced, Joh," rejoined Aunt Phoebe, with Iry curtness.
T'ncle Joh seemed suddenly to hare gotten some pepper up his nose, or a whiff of Scotch
snuff, for he hegan a rigorous course of sneezing and conghing that qnite drowned the
curtness of Aunt Phoehe's remarks. Of course. his interual equilihrinm had heen restored be tur
cuser.
Aunt Phoehe had resumed her task of drylug the dinner dishes, none too gentlr. The
knlres and forks, as ther turubled down in a hurried heap to the buttom of the kuifehox, rattled in
tarbed temper
"Hare you seen anything o the Paris-green
pall, mat?" asked Tncle Joh, meekly. He pall, mat" asked uncle Joh, meekly: He enlng fulnence was necessary: now he a
p:aided it with a smile of good-humor.
I see it hangin' out 'longside the mood-house. nolishlug the surface of the plain glass waterVolishlug the surface of the plain glass water-
pitcler and did not see the twinkle in Uncle pitcler and did not see
Joh's eyes as he replied:
"Yes; I guess I might 'bout 's well pass my time a-hnggin', seein' I can't go to the Fourth
$\sigma^{\prime}$, fuly, uor nothin'. You shouldu't be s' fetchtaked hard on a feller, Phoebe." He pulled
the bruwn hat down securely about his ears. and peeped slyly into the round looking-glass that hung suspended over the wash-hench. "Who said ansthing 'bout sour' not goin',
Joh Jenkins, I'd like t' have sou tell? Go if you watut to, an' I hope $t$ ' goodness you'll ever ${ }^{\prime}$ last leaf from the rines, an' the weeds
In the curn-field is a-lookin' ral In the corn-field is a-lookiu' real promisin. I
shoulu say, for a fine crop; but rou needn't mind little things like that. Jest put on your Auds an
Tronld."
She finlshed her spirited remarks with an
chergetic flourish of the of the glass pitcher. as she placed it upon
"'There, there, ma! don't git your Irish up' Didn't I say I's goin' to hug?, His huml
was holding tbe door-latch upraised hesit:atingly. "Where'd you say the pail was:" he questioned, absently, as he stepped out upon
the narrow back porch, stumbling awkwardly kept outside the door to "catch the always hut which succeeded more often in tracks. Cuclo. Job's clumsy curr-hide bouts. "Pesk take the thing," he satid, which speech he
found most applicahle to corn-husk mats found most applicable to corn-hnsk Then he went down to the hottom step and
stood a moment, staring mechanically. over the Juls fields, where billowich of greeu rippled responsively to the soft touches of the breeze. Orer rouder a patch of freshly
plowed ground lay darkis agaiust the rnstllng greenness of the roods.
"I don't know as
time, after all," he mused, balf regretfulls
There won't prob'ly he mans doin's the Dempster hand'll be down, an' I heard prob'Iy some racin'; it's hard t' tell."
He stood reflectively looking into the distance and listening to the energetic rattle of dishes in the kitchen.
"I dou't kuow but it's "hout as well, though," he concluded, as he walked arras
in the direction of the shed. "If ma'd "a" in the direction of the shed. "If ma'd 'a'
went orer she'd been sure $t$ ' e't some piuk taffs: an' if there's anything in this world that upsots ma's nerres, it's pink taff. She
allus will eat it, though, if it's in sight, in spite o' all marnin's. Ther' don't secm t' be sourch temptation any other day but the $^{\prime}$ Fourth o' July, with a candy-store erer' other corner, an' folks a-eatin' somethin' 'r othe
on ever' hand, it's a leetle too much for ma's bump o' firmness.
"I should think a good plump week o' the toothache would break anybody $0^{\prime}$ pink taffy but it don't seem t' break Phoebe. It's cur'us how some folks'll go ag'in their jedgment
Now, if I kuew taffr'd bring on toothe tbat $I^{\prime} d$ be laid up and have on toothache, an hot rags wrapped 'round $m$ ' jaw, an' that 'trould cost mebbe a dollar for camptire an one thiug another, d' pou s'pose I'd go right tion. It's silly $t^{\prime}$ thrust rour hand in a m no jatr, says I.
"Now, after last Fourth I spent hout a Week heatin' hricks, an' washin' dishes an' Wringin' out hot smartreed rags, while a-groanin. I guess it's a good thing ste didn't make no 'count on goin'; leastwars, no 'thout she's conquered her hankerin' for pink taffy."

Aunt Phoebe watched him from the windon as he moved a way over the pasture-fields. Fonder what erer possessed 'im t' give i word like He usually hangs on for the last word like a dog to a root. I'm sure I expected
anyhow an hour o' squahhlin', anyhor an hour o squahhlin', she mused pearing over the fences. "'गTain't like Joh. I hope t' land he ain't feelin' poorls," She drew a long breath of relief that still held faint tinge of regret
"I s'pose the Riruttses'll all he down, an the Peterses frum Derhy Hill," she reflected, half sadiy. "गVe e't dinner with the Peterse last year, an' I 'member Mis' Peters had
raspberry pie, the first one o' the season. wonder 'who all is eatiu' dinner up $t^{\prime}$ grore this year." She wiped the white
cloth dry with slow absent-mindedness. cloth dry with slow' absent-mindedness.
"It's hest as 'tis, though," she mused;
"IIt's hest as "tis, though," she mused; "if Job erer got there once 'trould he the old
story over' ag'in. All goodness couldn't keep him awa, an' countin' riggin's an' shell what- $y^{\prime}$-m'-call
'ems. I know how it goes. Ain't I summered and wintered 'im? An' he's the same old Job lie allus was. He comes home hu'sted erer last time. He can't resist the temptation, things, an' so it goes frum had $t$ ' worse til bis pocket is as emptr as an upturned copper h'iler. Though what he erer expects $\mathrm{t}^{*}$ gain in the first place is more'n I can see
l'd as soou think o sinkin' my money iu bottomless pit.
"He nerer did gain as much as a nickel, though he's allus a-hopiu' to. I said last
Furth when he come home 'thout a cent come any more doin's t' Hackettrille the Jenkinses roould stay $t$ ' home; that is, ouless Job mended 'is ways powerful, which I guess
ther" ain't much hopes of. "I don't sec how folks can do thiugs so right ag' in their reason. Now, if I had any particular weakuess I think I'd try t'govern big gump I conld make $o^{\prime}$ mrself. A boily must hridfe their want-t'-dos, says I.
-I mowder now if Grandma Fitzjohn'll be dumn? She's gettin' s' old she won't prolly git unt t' see many more Funrth $0^{\circ}$ Julys.
I'd kind $o^{\text {. }}$ like $t^{\prime}$ see her.". She had finished the last of the dishes, and the tin dish-pan gleaned brightly from the back
she had turned it over in the sun.

- It's a fine day t' be out.
be comfortahle. Last Fourth $0^{\text {' }}$ July 'tro hot an' sultry all day we couldn't iujor ourselves; an' then to'ards night it showered shouldu't wonder it ther'd bare a first-rate time." She rent into the front loom and looked out through the pink mosquito-bar A rippling hreeze stlred
sweet-willam on tbe east slde of the path-
was, and set the sellorr-huttons bohbing on the other. Sreet-william and yellow-huttuns Trere Aunt Phoelhe's specialt.
A pair of trim hrown sparrors came thut tering down frous the shelter of the flowering currant near the fence to a more prominent
perch upon a hending twig of lilac, wher perch upon a hending twig of lilac,
they chaterea with nois, lmpatience.
"There! if I didn't most forgit thei
rumbs," suid Auut Phoebe, remorsefully crumhs," suid Auut Phoebe, remor'sefully.
"An' it's the Fourth $\%$ July, tou." Sh" "An it's the Fourth o' July, tou." She tbe pantry and scattered them out with : poor little fellers?": she said, sympathetically Arras down la the hollow of the opposit gled among the trees it was on the otlle road, the road that led to Hackettville.
"B'llere f'll jest slip on my good dress, an go over $\mathrm{t}^{\prime}$ Mis' Jackson's a minute. I'd like
t' know how her rheumatiz' is gettin' 'long I h'liere some o' that rinegar an' turpentin linament would cure 'er right up. I'll hatr bout to, t' put down my pickles. Ther 'bout spoilin' t ' be tended. I allus use mixed "I Noun't stay long," she assured berself, as. she smoothed back her hair and fastened a gown. "I'll be home 'fore supper fast
She took her checked-gingham sunhonne
down from the clothes-bar, hut hung it hack again uudecidedly. "Guess I Won't wear it, after all." she mused, reflectirely. "I might
meet somebody." So she pinned on her bes black hat with a siugle huuch of red artificia
Holding the umbrella over her head to keep off the sun, she walked down the posy-hor-
dered path. She lingered a moment to pick a fragrant bunch of sweet-william to carry for "I don't like t' go emptr-handed," she said.

Once out in the potato-field Uncle Joh "bugged" a few rows with meditative slow-
ness. Down and hack, then down again; hut half way hack be paused and set the pail hetween the two finished rows, and straight ned bis lank figure hat and ran his finger thoughtfulls through his tousled hair, then he brushed the dust carefully from the creased crown and fixed it up a little, and put it hack
on his head. He whistled a hit of melodious on his head. He whi
tune in a drowsy was
tune in a drowsy way.
The air seemed full of inrisihle roices call ing persistently. The alder-hush heckoned white fingers alluringly
He went orer and sat down on the fence and poked his hands deep into the pockets of there calculatirely, The only sound that hroke the quiet colutry hush was the rustling stir of wind in tbe loug grasses and low shrubs that bordered the fence-corners, and the cbeery chirp of a the roadside; but there were imaginary sounds that quite drowned Sir Robin's efforts for Uncle Job-the hoom, hoom, of heary cannons and the intermittent pop of iuuumerable fire-crackers, the sound of fife and horn and
drum, and the hearty cheers of loyal countrydrum, and the hearty cheers of loyal country
men.
Uncle Joh was a patriotic man, and as he fhought of all this he deliheratels drew the then he gave his suspenders a forward hitch and hrushed a hit of mud from his frayed
"I'll need more Paris green, that's certain," he mused, with slow, convincing force 'I hain't more'n half enough t' finish. Might's well git it $t^{\prime}$-day as $t^{\prime}$-morrow, for all I
know. Time is time. It aln't but three milcs. r'll be hack long 'nough 'fore supper-time. Then he clamhered dowu off the fence; but not into the potato-field. Instead he crossed man's orchard. He cast oue furtire glance througb the sheltering hrauches at the famillar gray house hack across the road, hat peeriug curiously throurh the peeriug curiously through the pink mosquito there, ueither in any of the $\begin{gathered}\text { indows. "She's }\end{gathered}$ like as not laid down for a nap," he assured himself, confidently, as he thought how Aunt Phoebe's naps usually
His great hoots took on astonishiug speed as they hore him nearer aud nearer the scene of festirity. Throngh the orchard, over al
clorer-field heary with honied blossoms, twist rows of corn waving fresh and green in the invigorating breeze, then out into the road. He whistled no longer in a half-hearted. monotonous way, but with hearty jingling
At last he heard shonts, relicred now and then whe a pore hy the pop, pop, of lesser artillery. A thrill found its war luto Uncle Job's bosom. His: footsteps stretched out into an unmistakable hill that lay between him and Hackettrille

Aunt Phoebe rapped several timesupun Mrs Jackson's door wlthout any response. Then
she ment around to the back door and rapped
there with the same result. "Goodness! It callit the she's gone $t$ ' the celehratlon," mused
the Ittle woman, with a fiuter of astonlshment. "Mr. Jackson said she was down flat with rhemmatiz: Mehbe she's takin' a nap."
She weat orer to the findor:, and shlelding her eyes with both hands, looked in rerve hoots stood prope. Mr. Jackson's wall behind the kitchen propped up agalnst the wall behind the kitchen stove, and Mrs. Jacksom st wrk-ipron hung limply orer the back
of is chatio. $\cdot$ l do hlieve thes have gone," tried the dour. It was locked. The only slgn potted tabhy, who crept unt of the shavlng-
larrel on the back step and began to mers harrel on the back step and began to mew
plaincd Aunt pr-d-do, I should say," comhack to the gate, and sat down to rest on a stone that looked invitiugly up from the shadow of a great drooping willon. It ras July,
aud Anut Phoeke was not slender. She pulled aud Aaut Phoehe was not slender. She pulled fanued with it, Iallingly.
"I might a knowed ther wouldn't be home; ther. nerer air, not if they're ahle t' stir foot. red posies in her hand for consolatlon. "Poor thiugs, they're Wiltin' a'ready," she sald. wid, rolling up a cloud of white dust as it
"Now, wonder whoerer "tis, anyhor,", Herdmau's, in' 'tain't Barrets', for they botb drixe white horses. I can't mind auybody that drives a span $0^{\circ}$ sorrels, 'thout it's Fltzjulnn's. That's who 'tis, us sure's the world.
That's Grandma Fitzjohn this minute, settIn' That's Grandma Fitzjohn this minute, settIn'
者 on this side. Well, if I ever!" she ejaculated, with pleased surprise

## the willow then it paused, opposite

 Phoehe waddled out to the road rith a smlle "Well, who ever thought $t$ ' see you thlstime o' day. Ain't you startin' out pretty
"We couldn't exactly be called early blrds," augbed Mr. Fitzjuhn. "We're jnst goin' over

- luok on a spell. We don't calculate t' take all the doin's this year. Ain't you been : the and Job didn't count on goin' this Fourth." returned Auut Phoehe, evasively. "Well, sou just climh right in an' go over
with us. We don't mean t' stay but an hour - so. There's lots o' room," invited Mrs. Fltzjohn, With neighhorls hospitality. "Come on, We ain't had a good look at you this sum-

Yes, do." echoed Grandma Fitzjohn, coaringly. Aunt Phoehe stood uncertainly. Ime?'" she questioned, anciousls. .. soupper she confessed, 'I left Joh $t$ ' work in the po-ato-field, an' he'll want supper early. If I thought I'd hare plenty $0^{\circ}$ time-
She felt inspectivelr through her spaclous pocket for a solitary half-dollar that rolled I might he ahle $t$ ' git some mixed spices," he rellected, eat as she stepped
"Your hat don't seem t' peench much tbls moruin. does it, Joh?". questioned Aunt
Phoelhe, with sly insinuation, as sbe watched Phoele, with sly insinuation, as sbe watched Uncle Joh humbly selecting the old straw With a hlue ginghau patch, preparatory to gohead'll shrink so in just one night." There was a momentary trinkle in her gray eyes as she rested her hands on her hips and ment. No, I can't say as it pinches much, was as the retort, "but it twas half as pury I'd probahly have $t^{\prime}$ go bareheaded. Cur'us, hain't it, how a hody's cheek cau take such a raise in s' short a space o' time? Oh, rou
ncedn't think I didn't hear ye promllu' 'round iu the middle $o$ ' the uight for the camptirehottle, an' one thing another. I wa'n't s' sound asleep as I let on. What was it seasoued with this time, anyhor', una, Winter-
green 'r vanilly? Pink taffy's a wonderful flesh-producer, it 'twould only spread the thing round a leetle more even. Oh, I caught '•Well, seein' you wus s't smart, I s'pose that wa'n't all re see. I s.pose ye see me in' through your hrowu hreeches pockets, temper: "Iou needn't look s' scared: 1 dldn't
take nuthin'. There wasn't nothln' t' take. Come, nuw. Which was it, a wheel o fortune, r a shootin'-match, 'r a pair $0^{\prime}$ nigger habies? You're a real hright man, Job Jenkins, I
don't deny: hut I guess you hain't got nothin' don't deny: hut I guess rou hain't got nothin'
t' suy this time. You might just as well t ' say this time. You might just as well
mosey 'long ont t ' the pertater-field." mosey "long ont $t$ ' the pertater-field."
"lle all have our short-cumiu's, I spose," mused Aunt Ploehe, with a sigh of resignation. "I hare mine an' he his'n. I guess it's
which and toother the whole world orer. We'll have our hauds full, I shouldn't moncle:1u," she added, as she applied a brick dipped in vinegar and wrapped about wlth
wooleu cloths to the aching rictim of pink

JUNE
When the clover is deep in the orcharc,
And the grass waves fresh aud free When the straws werrys sweet, ild sunny retreat, Waits for the robin or ine;
When the bobolink down in the meadow Is siuging his rollicking song;
When skies are olue and cloud And the days are lappy and long;
When the vutteris woess the white rose, And everst thing seemis in tune,
An, then jou may Oh, then you may hear thuc clock of the sear
Striking the hour of June. Striking the hour of June.

A DAY ON SILVER CREEK
EMLI Boh htar fresh

.as spring morning was very fresh and sweet, and Lucinda Bargar,
not many reets remored from a hed of siekness, stepped out to
enjor its beaty.
She lifted a lilac braneb and ing a keen pleadure in the fragrance of the
roung huds. The soft green grass. Vieldiug roung huds. The soft green grass. Yieldiug
beneath her feet, gare her a strange delightful sense of buorancr. It was almost her first
walk a hroad since she grem strong enough walk ahroad sinee she grem strong enough
to "he ahout," as Cousiu Marg'ret expressed it. She bent orer her farorite rose-bush to
note the signs of life in its reins, and pushed the grass awar from the tender blades of the young flags that were lifting their lances
brarels as adrance-guards of the return of bravely as ad
rernal Nature.
faint color crept into ber pale cheeks, aud her deep-set eses glowed as she looked up
at the blue sly and about her at the signs awakened vitalitr within her throbbing in every veln. One looking at her at that moment would almost hare forgotten that she was Whole woman with happiness.
with her own resurrection to life. Everrthins had a beauts for her newly anointed eyes the coad running in front of the bouse, across the corered bridge and up the long, clap hill beyond; the old mill, just to the right of
the bridge, black and weather-heaten against the brldge, black and weather-heaten against
the tender green of the willows, and the silreel. eren in that she sarw filing domn toward the creek, haughty and awkward. At the sound ant a earringe comin sh comfortahle jog-trot down the hill. It had ar. plain sturdiness about it that seemed famil. the shaggs homeliness of old John Bull, one of Judge Warren's carriage-horses. The flush
died out of ber face, and a faint tremor seized her. She turned as if to go in, then
new Impulse seemed to chain her feet.
"'io, 1 ain't a-goin' to run awar." she '-o, l ain't a-goin' to run amar."' she said of. Besides, I dou't beliere she $l l-a n y m a y$ 'll see.
busied berself with its huds, her fingers trembling. The earriage came nearer, and she holding the reins, and behind him the ample Warren. She almost held her breath as the earriage drem opposite where she stood.
Judge Warren lifted his hat with half-embarrassed und awkward deference. Mrs. Warren front of her. Tbe judge cast a furtive glance John Eull a cut which startled him out of his honnet gare a sudden lurch, her decorous silk
eape futtered wildtr for a moment, then the carriage rolled on across the corered hridge Lucinda's hands dropped lumn, and the lilac branch fell out of them, all its sweetness
gone. Quiek tears sprang to her eves. She
hastlle wiped them
 It of her. and she so twader-hearted. Well,
they s:ay the best woman's the hardest. somethers, and I recken it's so. I recton Id feel
the same lu her place. She had ou her best
thack sllk to-day. I guess she was feelin' the :an seckel blood riylit smart. We.ll, the
Lord gives ns onr binth, an' that's somethin'
we c:an't help, hut It ain't right to furget that he:ants is humana an' (anl feel, it seems to me,
still, I reckun l'd feel like she does, marhe." She turned slowly now and went hack
toward the house. She was weak and trem-
bllng from the excitement and the hurt she bad received.
"'rindy"'" called a sharp voice from the hall,
"whe wns ( hat went hy jes' now?" $= \pm=5=$

 II unumh 1 reckon not. The jedge salu
you, didn't he? "He, didn't he
"Hiene."
"I reckon Mrs. Warren didn't exert
specially to see ye. How did she look?
TTere to There was no answer. The inquisitor migh have taken pits on toe pale face and post-
poned the persecution, hut Cousin Marg'ret silence of homan of fine perceptions. The silence of her dependent angered her and pro-
roked her to renerwed formation.
"Was the jedse real friendly?"
Lueinda had picked up the ball of carpetrags, the seming of which had giren her oe-
eupation in the bours of her convalescenee and was too busy sorting eolors to hear the question. Mrs. Daswons exasperation grew
to white-heat. She had a riolent temper, and to white-heat. She had a riolent temper, and
ruled husband and child witb a high hand. Sobody erer opposed her but tbis quiet Lucinda, and she only, rarely and under great prorthe last outhurst between them. nam since three years old, had incurred bis mother's displeasure hy some childish disobedience. She had punished him until the hlows and screams had brought Lucinda to the scene, and, white bill out of his mother's hand.
"Don't you dare touch him again," she said, with blazing eves. "What right hare you to
be a mother, with your vile tongue and sour vile temper; I wonder God ever gave you a little child.
Then she
Then she had carried him, sobhing and eling ing rouud her neck, to a shady place domn by
the creek, where they both loved to sit, and had kept him there all day, taking him to her own room at nigbt and scarcely allowing his of tbat time she had come to Lucinda humbled and repeutant and received her child agaiu. But from that on Lucinda was his realyother, and the little child and the derotion that was almost pathetic.
Mrs. Dawson had forgotten this occurrence now as she went on probing the wounded
heart with eruel persistence.
"I guess Mis' Warreu held her bead pretty high. Didn't she look at re at all?

## Still no reply from Lncinda.

-I ain't hlamin' ye. Ye can't hlame me.
I ain't hlamin' You, Cousin Marg'ret!",
ren's awful proud if they are plain folss, an ren's awful proud if thes are plain folks, an
she bnows how I've let rou live here and do she 5 norrs,
the work."

1 dangerous sparkle of the eyes, and a faint glowing spot on either cheel, coupled with
Lucinda's continued silence, shonld hare Mrs. Dawson she had gone far enough, but the risihle rousing of this usually repressed
nature gare a keen zest to her occupation, nature gare a keen zest to her oec
and she went on somewhat recklessly
"Yes, she knows it's natural that a woman living on her relations as you are, an' sort
$0^{\circ}$ doin' the bitchen-work to kind $0^{\prime}$ earn her livin', 'u'd he glad to git ol' man Bruce jes for his propity. But tell ye 1 , as Ire told se before, he's got mightr little
left, for most $o^{\circ}$ it's gone to Mrs. Warren a ready. He ain't kep' nothin' but a few reads moner in the hank to supply his few needs while he hiles, os I understand. Ye're
dependin' on a broken stick. Cindr, shore' depenain on a brosen stics, Cindr, shore shoulder, an' se'll have to work like a nigger
while ol man Bruce lives. Then when be leaves re a widow ye'll be wantin' to come back on me, hut I d' know as I'll bave a place
for ye then. I d' knot as I've got any call for ye then. I d' knom as I've got any call I think most folks id sast I'd done my duty bs you. It's heen a losin' business to take in on ye I've had to do, and the hig doctor's But tie woun
But the rorm turned here. The smolder rose, terrible in her righteous iudignation, aud looked down upon her relative with quiet scorn that hurne
-Don't you disturh yourself by thinking Consin Marg'ret. Dr. Allen has told me ove an over again that if he tended mee till dooms dar he comldn't never pay me haek for uursin
his little Jack through that spell of fever. says I sared his life, an it seems to hurt him when I eren speak of moner. An' as for
your waitin' ou me, many's the day I'd a ,icrished for a drink of water if it hadn' for a drink of "ater if it
for Mr. Eruce, an' you kow it
$k$ it makes any diference to whether he's got money or yot? I'd be glad niry life. He's the ouly human hein', except little sim. thy enther died. An' hangerk of lore since iny mother died. $\mathrm{An}^{\prime}$ hunger for
love's worse than hunger for mere vittals. know 1'm plain an' ordinary, hut I've got
feclin's just as teuder an' true as if I was beantiful nn' young, an' if it hadn't 'a' been for Ittle saus my heart would 'a' starved
long ago. $\Delta n$ ' Ar. Bruce-I never ean forget how he came everry day all through my long
sielkiness an' how his kind, cheerful face was like a ray of sunshine. He eome at frist out of the pure humauity of his great big heart,
an' I never carcd a blt to live tull I found out
 to work for us bothe an ' I will: You needn',
never be afrald we'll he a hurden to you',
trembling. Then ia a moment she went on,
Of course, lim sorry ahout Mrs. Warren. I didn't thiuk she'd be so set against it.
reckon she can't help it, hut I think sbe ought to think ahout him some. I kuow he'll he bappier, and if the Lord lets me live, an'
gives me streugth. I'm goln' to see that his last dars are his best days, an' that he lives to he a hundred. I know the time'll come When he 'll be reak an' helpless an' not ahle let him lay in hed au' not suffer none, an' let me work for him au wait on him.
Cousin Marg'ret sat speechless, ahashed bs a nohility of sentinent she could not under-
stand. She had married a mana mans sears ber senior: alld from motives she now imputed to Luciuda, and the result had not heen for tunate for either. Before she could gat her ont with a certain diguity which colscious integrity gives. and had gone to find solace integrits gives. and had gon
in the society of little sam.
Mrs. Warren's haughty exterior did not last
much beyond the hroor of the hill. As John Bull and Xenophon settled down into a quiet trot again out the lerel road, she felt a tear
come stealing dowu her soft, satiny cheek: then anotber aud another. until she ceased trying to repress them and was sohhing uucontrollahly. Judge Warreu essayed conso-
lation, hut as this was a troulle in whic lation, hut as this was a trouhle in which he did not wholly sympathize with his wife,
his remarks chielly took the diplomatic form of, "'There, Josephine, honer, don't ery!" deslred be gare rent to hisorn sootbing effect iugs by gare rent to hisomn perturbed feel one flant then upon the other of the long-uf fering John Eull, till ther went spinning along the uneren country road, humping into running into an occasional roek or stump, and stirring up the dust with an appalling disregard of feminine apparel. This attempr at consolation was suecessful, for Mrs. Warren dried her eres, and gaining her equilibrinm Tarren: are rou cried out, "Good land, Mr. Don't whip Johu Bull to death, an' I'll prom se not to ery any more
This promise she suceeeding in keeping until they drove into Col. Tau Srckel's stately
rard, and she saw Mrs. Van Syckel hastening Yard, and she saw Mrs. Van Syckel hastening
out to her with open arms and a welcoming smile; then her tender heart orerflowed her res again, and as she fell upon Mrs. Yan rercr neck she sohked out, Mercr, to marry Lucinda Bargar." Mrs. Tan Srekel had her in the bedroom in took off her bonnet and administered soothing pats and bisses sbe heard the whole story. "Iou see it's had enough for father to want to marry at all, an' him a great-gran'father than he is an a cook out of somehody's kitch-
Mrs. Van Syckel wisely said nothing. She knerr this, was a prejudiced rien of the ease Whieh would yield only to time.
long while. Father's allus heen fond $o^{\prime}$ old Encle Sam Dawson, an' felt sorry for him on ccount of his wife's tongue, an when he Eren when he said Cinds was siek. an kept takiu her little delicacies, I nerer sus-pieioned-he's allus so tender-hearted, father is. But last uight when he come home an' old me he was goin' to-
romeir wept silentis together
-I told $د 1$. Warren to hiteh up early this morning an' bring me right up bere. I don't know but what I'd 'a' eome last night if it hadu't heen so late, I was so worked up. An'
it's goin' to he right awar, too, just as soon couldn't he contented with us! Little Josie ust lores ber 'ol' g'aupa,' an' we're all been co happy together. I never could get my omn
consent to give up Sue and Josie until lately thongh Charlie's allus wanted to go to housekeepin'. An' now ther'd just made all their arrangements to take father's house right over ou the next hill, where I could see them lamb if she got sick. An' Sue was so sensihle; she didn't waut new things, but mas perfectly willing to use mother's: an' I thought
what a comfort it would be for me to have the old house opeu agaln after all these years, an' thiugs like they use to he when mother enjoyin' my girlhood's honie. An' now fathr's thiurs-all her Oh, I can't hear it, Merey, there's no use talbin'! I can't! I can't!'’ to stand that. No, indeed: Uncle Bruee was here resterday and he told stanley all about gring to change your plans. He sald he wanted little Josie to have all her great-
grandmother's thlngs. IIe Is golng to huy a little place near clifton, and he and-audthey are golng to do market-gardening. He Joemed very happy in hls plans. Dear Cousin Josephlne, do try to he reconclled. I believe
it is hetter for ham. She is a good woman "Good woman, indeed: Merey, don't wh money she thluks he's got, au' when she tuds
out how things are-oh, poor father! Ree Laled? I never can be reeonclled-never!' Late that afternoon Mrs. Dawson came into "Cindry Bargar's room with a eouciliatory 'Cindr, there must he somethln' mrong at
Warren's. Ruhe's just goue over the hridge like the sheriff was after him. Must he got after Jedge and Mis' Warren, or the doctor Hope it's nothin' serlous, for it's a good seren mile to Col. Van Srckel: to Clifton."

Lucinda was already at the door. Far up the elay hill she sam the hlack horse and its hlack rider, and in a moment they were gone She knew the blaek was Charlie Thornton's fleetest horse, and his special pride next to bis mife and haby Josie, and a great fea In an instant
plasbness. for down the ashamed of her owru Mr. Bruce, som the opposite hill came The two women hurried dowu to the stlle to meet him. and he did not stop to give the saddle.
" We think the hahr's dyiu'. Mrs. Dawson," see if rond rotee trembing. "an 1 come to with Sue aud Charlie but old Grandma War buggr she's no idea what to do. Charlie' undo it, but thought I'd just get Datrson' an' feteh ron hack in
Before Mrs. Dawsou could reply Lucinda spoke, "I'm going back with rou, Mr. Bruee, sle said. Cousin Marg ret don't know noth in about chren aor slckness, and may be some help. I'l! be ready ag'in you get th "But Lou,
roice full of he remonstrated. hi just out of a sick-hed yourself."
"The Lord will give me strength," she said, mplr. "I'm a-goin"
The faee of an angel could not hare been eyes than that of Lueinda Bargar. The hest nurse in all the country round, she was es peeially skilful with children. As she stepped into the room, shethy laid aside ber sbatl and bat without waiting for ans bidding, and stretched out her arms for the ittle sufferer The agonized roung mother sielded her up sobhing out, On, Cinds, Cindy, sare $m$. bahr and In love sou forever."
pillowe more was said. The quiet woman pillowed the little bead on her hosom, gare a marming the ting hands aud feet.
Serrants flew here and there to do her hidding. The young father, with his arms ahout his mife's waist, watehed her as if she were ing arose of life and death. A mighty yearaprayer of those four heseecbing eses.
"Oh, God," she prayed, "sare this precious little ife eren at the expense of my own.
Give me the misdom I so sorely need, au help me to hold out till the The minutes wore on and little Josie still lived. That in itself was some eneourage ment. Twilight fell; the cows came up to the little life in danger in that still front room seemed to have paralyzed all the life on the out elear and brilliant; a dim light shone in out elear and brilliant; a dim light shone in lenee eversmhere, and still the desperate struggle which the unwearying woman waged with death. By and br a bustle on the out side, and low moaning sobs in the next room told that the stricken grandparents had ar rived. Oh, if the doctor would only come. She drew the eorering apart and felt of the little hands. Surely they were marmer. But the hahy's moans almost hroke her heart Fire minutes. Ten miuutes. How the tlue dragged! Then a sound outside which Lusweetest music she had ever heard-Dr. Al len's hluff, 'hearty roiee
""The Lord knows I'm glad to see rou here." were his first words, as he sat down hesid her and hegan, without delas to examin the babr. For an hour he and Lucinda worked steadily, faithfulls. Few words were spoken. At the end of that time the little eyes elosed. The poor mother gare a faint hearthreaking scream. The docto
kind, fatberis arms
"She is hetter; she will lire," he said. "尺ue my ehild, your halyy will llve." And he took her tenderly from
"God hless you, doctor!" sald the father, huskily.
"Don't bless me; hlcss this good woman core. If she hadn't eome when she dld my
coming would have heeu ln valn. La bless me. Nilss Lou! You ought to be In the bed thls minute,
Mrs. Warren rose, her swect face all aglow and the tears streaming down her ehecks. and came o
da Bargar.
' so she shall, in the best room lu the house." said she, the smalles hreaking through her tears. "There aln't nothln" on thls place
too good for her," with a meaulng gince a her father. "When I thluk of what I suf fered comiln along that awful road, thinklin a-callu. me. nor them preclous little footsteps patter

In' round the house an' makin' the sweetest
music my old ears crer heard; and then to music ms old ears crer heard; and then to treated her to-day, au' all the mean thoughts I've had about her; an' to thlnk we owe the can overcome evil with good in that way is mighty close to the kingdom of God, an' I'll you get out of the way an' let me show Cindy to the parlor bedroom?"

## SPRUCE-GUM HUNTING

Although chewing-gum of various kinds-
pepsin and special digestion alds-can he propepsin and special digestion alds-can he pro-
cured at every clty corner from the pennyslot machiues, nothing has ever taken the place of the genuine spruce, and it still sells at a bigh prlee. It cannot he lmitated, nor is there any counterfeit which is anything like it. Some of the druggists in eastern Mainc
have contracts for spruce-gum aggregating have contracts for spruce-gum dome them have "staked" gum-hunters and seut them into the
moods. Most of the Maiue guim finds lts wal to the city markets that demand for consumption the round, red lumps that gleam
with luner fires like the hloodstoue. This choice gum is readily. sold by the Maine wholesalers at $\$ 1.50$ a pound.
Gum-hunting has many elements like rub-
her-cutting in the tropics, the men hurying themsclves in the wilds for months. The expenses of the huuter are almost nothing, and the recelpts from his quest are llkely to be in the nature of a small Klondlke find. Some
tohacco, a few hashels of heans, some coffee, flour and fat meat, with the game he kills, furnish him bodily fuel for the season, while
he will frequently in a single day secure gum that will net him $\$ 10$ in the market. He is shoes and his gun. His canoe will be laid up during the wiuter, but when the rivers open he will hring down his winter's find. He 1s triously in gum-hunting, but rather to make short days, and fish and hunt the remainder of the thme. A few days' hard work will furnlsh
him a cozy shack in the deep forest near the hank of a stream, and with wood unllmited and a sharp ax he is not likely to sufier, and comfortahle camp.
The solitude of the thlng would drive many meu mad, hut the northern woodsman is dif
ferent from most men. He carries a pact with him at all times, even when hunting, so with should he run across an old gum sear he can take advantage of it without maklng another trip. When spring opens he returns to civillzation, tough, rugged and hard as seasoned oak, and he may hare a pack of
gum to the ralue of several hundred dollars but long, long hefore the next season the money is all gone, and probably some one will gum again.-New York Trlhune.

A
COAL FOR A BIG HOTEL.
There are many things ahout the management of a large hotel whlch the patron takes for granted without inquiry or larestigation. He cau form no idea of the methods en-
ployed from what he sees in the office, the corridors, the dining-rooms and other parts of the bullding to which he has access, and there are not ma
Into the secrets.
For those who take
ters the arrangements for posing the coal are not the least interesting the Waldorf-Astoria uses one hundred aud forty tons of coal erery twenty-four hours duriug the winter months. This coal is all
delivered on the Thirty-fourth street side of the building, but one rarely sees a coal-car iu front of the hotel. It is all of the pea and carts Into au opeulng in the ground iu the middle of the Astor Conrt roadway. It falls pounds, and from there it is carrled on an eudless chain provided with buckets to a wast coal-bln which has a capacity of seven hundred tons. Daylight uever reaches this bln, piles of coal reaching nearly to the vaulted the like loos like a coruer in a coal-mine and litarrangement of levers the coal mas he dumped from the huckets at various points, distrisuted ln the hin.
the boiler-room is situated lower down in boxes withont helng handled. When the hoiler attendant needs coal for his fire he this half a ton of coal falls lato a feeder Which looks llke a monster funnel. When the an overhead track, and when it has reached the funnel is drawn aside and the coal drops into a trough in frout of the fire-box, whence it goes into the fire.
til it enters the leares the coagon unitself; and with the exception of the straightening out ln the hin, done hy one man daring dant, the coal is handled by machinery.

## WALTHAM WATCHES

The best and most reliable timekeepers made in this country or in any other.
The "Perfected American Watcb," an illustrated book of interesting information about watcbes, will be sent upon request. American Waltbam Watch Co., Waltbam, Mass.


## Every Economical Farmer

 ing. Weatherboarding, Sidiug, Celling. Galvanized
 PORTER STEEL ROOFING CO.,




## WANTED $\& s^{*}$

LADIES AND GENTLEMEN TO PROCURE SUBSCRIPTIONS FOR THE

## WOMAN'S HOME COMPANION

## the Most Beautiful and Popular

 Women's Magazine in the World, on extra liberal commissions. Terms, sample copies and special helps furnished free. AddressThe Crowell \& Kirkpatrick Co., Springfield, Ohio


## A SPECIAL AND EXTRAORDINARY SUMMER OFFER <br> Two Beadtiful Pictures Free

Any one sending only 25 cents for Farm and Fireside the remainder of this year will be given the choice of any TWO of the following very handsome pictures.

THE MANY BEAUTIFUL COLORS and delicate tints of these pictures give an
artistic effect that is appreciated by all who see them, and will especially be enjoyed by the happy possessor.


Premlum No. 710
This picture is an ideal creation of one of the best and most skilful artists. It is in the form of a folding screen, which, by being slightly folded between each subject, may be set upon the mantel, piano or table, and without framing or any
other preparation, makes one of the most novel and striking decorations to be lad. The whole screen is bordered, and the subjects entwined about with the delicate vines and blossoms of the Morning Glory, and each subject is the loving face of one or more of those little tots who are the real "Morning Glories" of every home,
the light and sunshine of the family. If preferred, this picture can be framed. $\because$


In Beautlful
THE MILL
Slze, 10 by 20
Inches

## Premium No. 720

This is a reproduction, in all its glorious wealth of coloring, of the famous picture now in the Doria Palace, at Rome. This noble composition is distinguished for its truth and power, limpidity and transparency. 'This celebrated landscape was painted by Claude Lorraine, the most celebrated landscape-painter of his
century, for Prince Pamfili, and is now valued at over $\$ 6,000.0$. It is procentury, for Prince Pamfili, and is now valued at over $\$ 60,000.00$. It is pro
nounced by the best critics to be the Finest Landscape Painting in the world.

Remember, we give your choice of any TWO of the above pictures if you send only 25 cents for this paper the remainder of the year
1899. Tell your friends of this liberal offer.

This is a rare opportunity to beautify your home with handsome works of art. The pictures are now ready and your order will be filled the day it is received. Give your choice by the premium number.


## an allowance for the children

 OT long ago, in a neighbor- good or ill, goes on more rapidly in the home ing city, a "mothers' meet-ing' was held, at which many interesting topics relative to the education of
children were discussed. Of these the one discussed.年 of most importance, and therefore dwelt upon at
greatest length, was the education of the child in the art of spending mones: The necessity for wise instruction in this most usef the is mapparent in life-not alone financial ones-are due to lack of knowledge, fivst of the worth of er, next of how to spend it. This subject is not taught in the schools: perhaps it cannot
be, otherwise than in a theoretical way, but it can made a practical matter in th home.

At the meeting mentioned above some thoughts were suggested, the practical value
of which would at once be recognized by all haring at heart the care and teaching of children. Prominent among these was the idea of a stated allowance for children, made alwars in proportion to the age of the child and begun dmost as soon as the intelligence begins to damn in his mind that money has power to procure for him that which he
desires to possess. Let this allowance begin desires to possess. Let this allowance begin and gradually increase the amount as the growing ability to spend wisely proves itself but in all instances let $t$
accompany the weekly sum

Cpon reflection we cannot fail to perceive how far-reaching in their effects these lesson may be, and how wide a field they can be
made to cover. It would seem that among the earliest, if not the very first, sbould be taught the lesson of what money is-an ex change for labor or effort of some kind put forth to carn it; and in this connection some the allowance is supposed to be all equiv alent, may be assigned. This mill serve to make the new idea practical, while the
knowledge that the same moner was earne first, and in a more difficult way, by fathe or mother, teaches industry, its necessity and its reward. for activity is natural to them, to find turned into cliannels of usefulness is gener
ally an added pleasure. ally an added pleasure.
Principles of economy and thrift are not al-
ways so easily taught, but these also can be instilled into youthful minds by means of the weekly allowance. We can make the litthe ones see that their wants are always in
excess of their incomes, and for this reason a choice must be made. Here the reasoning faculties are called into play, as it will be which is most desired and will longest sat isfy. They will come to understand that if their money is spent early in the week, and
foolishly, they may hase to forego something later which they will very much want Should this oceur, the time is ripe for a le son in self-fenial, as it would never do to purchasing what they had not money to pay for, and as and added result an aversion to
debt, and love of honesty call but develop, nd form strong elements in the future char acters of the children who are thas: wisely fudu
Industry, economy, self-denial, honesty--gratitude to the All-Father, whose loving hand scatters good gifts far and wide amon part, lecanse fle gives and for His sake. They can be encomaged to set aside a par of their allowance each week for some charitable purpose, forming thas: carly in life vears and powe an abiding source of bless. ng to themselves and wthers. Wheh time and thonght are hestowed in these latter
days upon the methods 1 log which children hall be tanght in the selhools, and as a resul it is believed that a better general system of education has beru wolved; Imt the rhief ents and personal ghardians. Their influence is the tirst to make its mark in the
process of character-building, which, for
han anywrlere else.
Why is it not also worth while to spend Why is it not also worth while to spend
ime and thought upon the methods which shall control the home teaching, remenlber ing as we must that in the deepest, truest ense of the word nothing is education which does not work from within to the surface and result finally in outward achierement

Lilla A. Whitsey.

## this, that and the other

- Tust try putting a ruffle on the bottom of our kitchen apron and see how much cleanyour dress will be preserred
There are but few of us, I presume, but have been prevailed upou by a wily agent to purchase a bottle of "The best cleansing fluid in the world." And soon to our disgust we ound it to be utterly worthless. An excelent "cleansing cream" is made as follows: Dissolve one quarter of a pound of white castile soap in one quart of boiling water rain-water is best). Then add one ounce of ether, one quarter of a pound of lump ammonia, one ounce of spirits of mine and wo quarts of cold soft water. Shake before using, and apply with a brush.
A soothing and inexpensire baby-powder is made by carefull browning flour, then adding a little powdered orris-root
Are your hands and face rough with the winds? Try this camphor-ice: One ounce of gum camphor; two ounces of spermaceti; four and one half teaspoonfuls of oil of sweet almonds. Put in an earthen dish on the back of the stove until dissolved, then stir


She hung the cage bs the mindow "If he goes hy." she said. -He will hear my rohin singing And when he lifts his bead And he will bow to me, I kno

The rohin sang a love-sweet song, The young man raised his head;
The maiden turned awas and blushed; The maiden turned a was
"I am a fool!"' she said, And went on broidering in silk A pink-ered rabhit. Thite as milk.

The sonng man loitered slowl. By the house three times that day: the window -He need not look this ras. She sat at her piano long

But when the day was done she said "I wish that he rould come? Rememher, Mars, if he calls To-night-I'm not at home. She went rang, she went-the elf

## III.

They sang full long together Their songs lore-sweet, death-sad: The rohin woke from his slumber And rang out, clear and glad. "Now go!" she coldly said; ${ }^{\prime}$ 'tis late: and followed him-to latch the gate.
He took the rosebud from her hair Thile 'You shall uot!'" she said; He closed her haud within his own, Her will was darkened iu the eclipse of binding lore upon his lip.
$\pm$

A NOVEL AND DAINTY CORSET.COVER
This being the many of which are not only thin but sheer the corset-cover, which per-haps was onl plain and serviceable for winter wear, mus many instances it can be seen through the thin The one here illustrated is not only rery pretty in design, but well fitting and easy of manufacture It closes in the back, the orer and brought around to the front again, where they are tied in a bow tucked out of sight the
11 together. While warm mold into what ver form you may desire
A few drops of tincture of benzoin in a bowlful of water is an admirable tonic for the face. The benzoin whitens the skin and prevents it trom wrinkling
Have you ever tried putting thick cream on your face for ordinary sunburn or blisterng? T hare never found anything to equal it. Do not fail to make some cucumber cream
while the material is at hand. Slice the ripe cucumber in a bowl, then corer with sweet milk. If it can be obtained fresh from the cow, so much tlie better: After standing for a half day the juice will be extracted; mouthed bottle in a closely corked, wide soft cloth. Hold the hands in this preparation if you wish them to become soft and white. Then after drying the liands and face dust them over with oatmeal. It is the moisture left on the sensitive skin that "kills" the complexion. A chamois-skin face-cloth
toilet-table
It is something to know that cut-glas: and silver ware will be improved in appear first only slightly warm, the other, especially for the silver, quite hot. A little ammonia added to the water "semi-occasionally" add. to the luster. Delicate, dainty china, how as the delicate color's will be dulled thereby: In old tooth-brush will be found very convenient in renoving dust from obstinate renient in renoring dust fromi
To some people of delicate digestion sauce and gravies are better if cooked in a double hoiler for ten or fiftecn minutes. It is the uncooked starch in them that renders them hurtful. It is much better to put the Howr in the grease and allow it to brown hefore the milk is put in, if meat grays is being made. And evell for "clear sauce" it is bet ter to heat lutter and flour and smooth together. The Homr then becomes partially cookid before the other ingredients ar
added. Ella Bartlett Simyoss.
corset-cover can be elaborately trimmed with lace or embroidery, or made perfectly plain as desired. In either case it answers its pur pose, which is to show as a complete and
dainty underwaist through the sheer shirtwaist. Emaia Louise Hauck Rowe.

## EVERY-DAY HINTS

Cooling the Cellar.- Thile a cellar needs to be rentilated, ret it is a great mistake to admit the outside air during the day. The object of rentilation is to keep the cellar cool and dry; but this very objec and and damp if it is rentilated during the day opened during the day the entering air is warn, and as soon as it comes in contact with the cool air in the cellar the moisture it contains is condensed, and settles on the ool cellar walls. A damp cellar is the result, and mold and mildew will follow.
To aroid this open the cellar windows after the outdoor air is cooled at night, let the cool air circulate through the cellar dur ing the night, and close the windows before sunrise in the morning. If the cellar air is damp and mildew appears, use whitewash reely and place a peck or more of fresh, nislaked line in an old wash-boiler or sin peck of lime will absorb a gallon of water The lime will need rentwing once or twic turing the summer, which, if the cellar i kept tightly closed during the day and kept tightly closed during the day and
opened at night, unless there is faults drainopened at night, unless there is faulty ge, will phevent mold and mustimess.
Good butter camot be made in a dam musty rellar; for this reason many prefer huild a milk-liouse above ground. Nuch house costs more than the underground eel-
lar, but where well built, with double, filled walls, there is 110 doubt it is much mot eadily kept dry and sweet, and also cool. Listrimine. - A bottle of listerine should shite liquid, an antiseptic and an antifer ment. I have found it so generally useful mony the light. mony.
that I am certain any one who once becomes acquainted with its value will always keep a upply on hand. Dentists recommend the保 ful to eight of water used with the tooth brush esery might will cleanse the teeth purify the mouth and correct any acidity For mild attacks of indigestion a teaspoonful of listerine in four or five times that amount of water will act like magic. Mixed with water in about tbe same proportion it is an niffed up the nose for a cold in the head or catarrh. It is on ercellent antiseptic wound dressing. A little sirl fell on a board which rad several mutr mils it and mad jagged mound on her knee. The bathed it jagged mound on her knee. We bathed it oughly cleansed and the flow of blood oughly cleansed and the flow of blood
stopped, then dressed it with a mixture of three parts raselene to one of listerine. The round healed with no trouble, and the child was running about every day. A few days ago a little girl cause running in, saying, Alama wans you to please come quick; baby has cut his liand awful." I took my bottle of listerine and ran orer. The little ellow had stuck the scissors almost through his hand. The listerine solution soon stopped the bleeding, and the raselene and listerine has been all that was necessary ince. I have found listerine valuable in so many cases that I mant everybody to lnow ts worth In every family where there are little hidnen so mare he it seemy to be just the thing andel, ane am certain that if once tried you will prize as much as 1 do Mida McL.

## WHITE SHIRT-WAISTS

While the windorrs of the stores are piled high with waists of all colors, the critical eye of the woman looking for supplies detects flaws in many of them. Knowing full well the deceitfulness of color, she turns with admiration to the white ones, that no sun can fade or laundering change. If one cares to go into the elegant swiss insertion and tucking by the yard, which insertion and tucking by the yard, which raries in price rom tro and one half to five dollars, the But all ower But all-orer embroidery can be had as low as serentr-five cents a yard, and a yard is make only the yoke of the fine insertion naterial and the fronts of a fine dimity or organdie tucked elaborately. The use of insertion and hemstitching combined is very pretty and not quite so expensire. The sleeres can be made like a dress-sleeve or shirt-waist sleeve, as preferred.
The underdressing, too, must be fine and lace-trimmed. Let me here advise every one to wear a white corset. Strange as it inas seem, many women think that by adding an underbody they can hide a black corset; but nothing can hide it worn with thin dresses, and it shows plainly as one walks against

Care sbould be taken in wearing thin dresses to have on sufficient white skirts, and also to avoid tbose with insertions unless you wish black stockings to show between them. With a white shirt-waist several skirts can be utilized, saving the waists till cooler days; and with a white skirt it can readily serve as a white dress on a rery hot dar.

Belle Kivg

## ACID DINNERS

The housekeeper who serves a conglomeration of pickles, coffee, sweetmeats, cream cheese, acid fruits and salads for one neal is lacking in good judginent. In the simplest meal as much thought should be given to
the harmony of all the food provided as to the harmony of all the food provided as the harmony of the different parts of an
orchestral orerture. Eren more pains should orchestral orerture. Eren more pains should be taken, in fact, for a man may listen tu
discordant music and uot die from the effect. of it, but he cannot take all kinds of disphysicalls and mentally as well as morally. A great deal of the ill-temper and viciousnesin the world to-das is no doubt the remh of improper food.
In hot weather it is particularly desirable to choose such food as will digest quickly withont fermentation. If a sweet dimer has bcen planned, regetables cooked in cream all in harmony. On a hot day when an acid dinner would be tempting, set the table with iced raspberry shrub or lemonade, slicerl onions and cucumber served in erystal dishes with lumps of ice, and a pretty green salad bowl heaped with crisp leares of lettuce. If with these salads are served cutlets of lamb. chops, with tomatoes, followed by a dessert lemon sherbet and fruit, you have a din

Lilliat Crowell.

## THE QUARREL

A little lad amid the wheat Had built himself a home, With slanting walls of bundles neat, and there he dwelt one summe Until a lassie came tbat way.

And then the two at keeping bonse Were happy as could be:
He scared awar a robber mo She gathered fruit for tea, nd wrapped it in a berry-leaf;

The little maid desired to play Ther gare a fancy ball, With lords sedate and ladies gay; Te're farmer folk; I'm goln We're farmer folk; I'm golng now
To feed my stock and milk may cow

When he returned, I griere to tell, The house was tumbled down, Tbe lassle gone, the tea as well; But did the laddie frown? Nay: wiser than the race of men,
He shouted, "Let's begIn

With eager feet she hastened back, A tear-drop in her eye.
But just too bad; I'm sorry, Jack
But here's your berry pie
Wedl build the bouse as
And never quarrel any more

## RED RASPBERRY DAINTIES

BING one pint (two cupfuls) of milk to the scalding-point in a double boiler; beat the yolks of three
eggs, a pinch of salt and three tablespoonfuls of sugar until very light,
add one tablespoonful of cold milk, and gradually pour into the hot milk, stirring constantly until it is creamy and smooth but do not boil. Whip the whites of the eggs to a stiff froth, add gradually three tablespoonfuls of powdered sugar, and whip until stiff and dry. Put one pint of rasp berries into a serving-dish, pour over the of the whites of eggs over the top, dust with sugar, set on the oven grate to yellow slight ly, and serre very cold
Lemon Sponge witif Berri Sauce.-
Cover one half a hox of Cover one half a hox of gelatin with an equal amount of cold water; after half an the gelatin and stir until dissolved, add the grated riud of one and the juice of two lem ons and one heaping cupful of sugar; cook ten minutes, then strain into a deep bowl When the jelly begins to form add the
whites of two eggs beaten to a stiff froth whites of two eggs beaten to a stiff froth, Heap lightly on a serving platter or mold and set in a cold place for several hours. Serve with raspberry sauce around the base RASPBERRY SAUCE.--Stir one fourth of a cupful of sugar with one pint of berries, and cloth. Thip three fourths of a cupful of cloth. Whip three fourths of a cupful of
cream until thick, then by degrees whip in cream until thi
the berry-juice.
Raspberries in Cream.-A simple and delicious dessert consists of one coffee-cupfu of rich cream beaten to a stiff froth and sweetened, with two cupfuls of raspberrie gently folded into it. Heap in a glass dish and serve very cold, with or without cake. Raspeerry Foan.-Soften half a box of gelatin in half a cupful of cold water, then
add two cupfuls of boiling water, and stir until dissolved. Strain into a deep chilled bowl, add one cupful of sugar, a pinch of salt and one tablespoonful of lemon-juice stiffly beaten whites of three eras and two cupfuls of berries pulped; pour into a mold wet in cold water and set in a into a mold at least three hours. Serve with whipped ream
Raspberry Pie.-Make a little light syr up of granulated sugar and when it is eold pour it over enough berries for a large pie.
Line a deep pie-plate with rich pastry, brush the bottom with white of eggs, and bake Then ready to serve fill the shell with the prepared berries and heap whipped cream over the top.
Raspberiy Dumplings.-Make a boiled sauce of one cupful of sugar, one tablespoon-corn-starch. Stir until smooth, remove from the stove, and add one tablespoonful of lem on-juice. Make a dough as for baking-powde biscuit, and make raspberry dumplings same as you would apple ones for steaming; place them in a buttered pudding-dish, leaving plenty of space for them to rise, pour the bake until the crust is done-about half an hour. Then baked take out the dumplings

## sweetened raspberry-juice to the sauce, and

 et it come to a hoil. Serve with the sauce poured aroundKatherine B. Johnson.
COLD DESSERTS FOR SUMMER WEATHER
To the world at large all frozen desserts are divided into two classes-ice-creans and sherbets. In reality there are half a dozen other frozen foods even more delicious than our old-time friends, and some of them easi er to make.
An ice-cream freezer is no longer a luxury, and by observing a few rules with reference to freezing and ice the work is small. No reezer should be relied on which is said to produce cream in less than ten minutes, for the product is sure to be coarse and grainy, much inferior to the smoothly frozen cream. Never allow over three pints of rock-salt to a gallon of crushed ice. With a heavy wooden mallet, costing about thirty cents, and a bag of burlap about two feet square the ice can be easily crushed. Ice-bag and mallet are also invaluable for crushing ice for summer bevelages, and eren for the ice in tumblers, if you use carafe
For plain, nutritious, easily made American ice-cream the following is a good receipt: One quart of milk, one cupful of sugar, three eggs and one tablespoonful of vanilla. Scald the milk, and after beating the eggs and sugar together stir into them slowly the scalded milk; put back on the fire, and stir slowly until the spoon is coated, not allowing the mixture to boil, or it will curdle; beat it for a little while, add the flavoring, and allow it to cool. Put it in the can. Then, remembering that the finer the ice the quicker will be the freezing, place the can in the pail with its pirot in the socket of the pail. Be sure the cover is on tight and a cork in the hole on top. See that the can is straight, then pack, first three inches of ice, then one of salt, and so n until within an iuch of the top of the an. When it is all arranged put the paddle in the can, carefully re-covering it. Turn he crank, and when it moves very stiffly the cream is frozen. Even a few tablespoonfuls of cream will improve this cream, and
they should be sealded also to remove the they should
"raw" taste.
Frozen pudding is ice-cream, or custard frozen with brandied or preserved fruits added. Water-ice, sherbet, sorbet and frappe are all about the same thing, frozen a little more or less; that is, water flavored with fruit-juices. Orange-ice may be taken as a type: Boil a quart of water and two and one half cupfuls of sugar for ten minutes. Strain, and radd the juice of six oranges and one lemon. For lemon-ice, four lemons and one orange. For strawberry-ice one and one half cupfuls of juice
Mousse of all kinds is delicious, and re quires no turning in the freezer, being packed and left for several hours. Whip a pint of cream until stiff; pour off any drops hat are left, whip into it four tablespoonfuls of powdered sugar and any flavoring extract you desire-a tablespoonful of sherry, or very
black coffee, or vanilla. It should remain in black coffee, or vanilla. It should remain in appearance.
Frozen fruits are nice and easily made. Crush the fruit, and add to it a quart of water in which two and one half cupfuls of sugar ha
Canned fruits are very useful, too. Strain the liquor from the fruit and sweeten it with sugar. Mix it with an equal quantity of scalded cream, and freeze. When it is frozen add the drained fruit, which should be hredded. Cover can and let it stay packed for one or two hours. All berries, cherries, plums, and even raisins halred and stoned, oranges, pineapples and bananas are all available for this kind of dessert.

## SEASONABLE RECEIPTS

Barafa Sandwiches.-Banana sand wiches are new and very nice. Take bread at least two days old, cut off the crust, and butter the end of the loaf; shave off a slice one eighth of an inch in thickness, spread with plan mayonnaise salad dressing. and add thin slices of bananas. Cover with another slice of bread. Pile on a plate on which a doily has been placed.
Cecuidber Salan.-One half dozen cold boiled potatoes, slice or chop, three large cucumber pickles, one onion chopped fine, four hard-boiled eggs. Save out the yolk of one, aud chop the others and mix all Mix the one yolk into a paste, stir in vinegar enough to mix the salad, add a little sugar, boil until it thickens, and when cold pour

## to taste

Apple Ciat of pule Cake.-One and one half cupfuls half cupful of butter, one half cupful of milk, two teaspoonfuls of baking-powder Bake in layers. Whites of two eggs beaten to a stiff froth, add one cupful pulverized sugar beaten in. When ready to put between the layers grate in a good sized tart apple.

Creamed Eggs.-Line the bottom of a hot dish with slices of fresh toast. Slice the whites of a dozen hard-boiled eggs over this Rub the yolks through a sieve and put ore the whites. Make a crean sauce as follows Boil one pint of milk, take one heaping spoonful of flour and rub to a cream with
one tablespoonful of butter, and add to the milk. Season with pepper and salt, and le boil up once. Pour over the toast, and
serve hot. serve hot.

Soutitern Siveet-potato Pie.-Take two good-sized potatoes; boil and pare and put through a sieve or colander; add one cupful of sugar and the beaten yolks of two eggs, one cupful of milk, one teaspoonful of cinnamon and nutmeg; beat all up together and beat to a stiff froth, putting in a little sugar. When the pie is done take out and spread on the whites, and set back in the Dressrown
Dressing for Salad.-The yolk of one raw egg (put all the yolks of boiled eggs in the salad), one tablespoonful of flour rubbed with the egg (put a little water to thin it
out so you pour it in), stir in vinegar, and let out so youl pour it in), stir in vinegar, and
boil till it thickens. Don't use any sugar.

Ruby.

## KNOTTED FRINGE FOR BEDSPREAD

Since the outer cover on wooden as well as metal bedsteads is now allowed to hang fre at the sides, a suitable ornamental finish is highly effective. On embroidered linen o satin ones crochet or knit lace is charming, but for the heavier dimity or marseilles one a knotted fringe with pretty crochet head-

ing is far more effective. The one here shown, while simple and easily made, is ver handsome. Make a ch, allowing two inches more on every yard than the exact measure of the spread.
First row-1 tr into every st of foundation
Second row-1 ch, 22 d c under ring; join.
Ihird row-1 tr in every top ch of cross bars; turn
Fourth row-5 de in first $5 \mathrm{tr}, 9 \mathrm{ch}$, miss 6 tr; repeat to end.
Fifth row- 4 d c in cluster of $5 \mathrm{~d} \mathrm{c}, 2$ ch tr in third ch of loop; 1 tr in fourth st st, $2 \mathrm{ch}, 4 \mathrm{~d} \mathrm{c}$ in next cluster of 5 d c ;

## repeat.

Sixth row-3 de in cluster, $2 \mathrm{ch}, 1 \mathrm{tr}$ in first tr of scallop; repeat $1 \mathrm{tr}, 1 \mathrm{ch}, 6 \mathrm{tr}$; $2 \mathrm{ch}, 3 \mathrm{~d}$ c; repeat.
Seventh row-l d c at top of cluster, 2 ch ,
1 tr in and
1 tr in and between every tr of scallop; re
Eighth row-Join last loop of one scallop to first loop of next one by $1 \mathrm{sc} ; 4 \mathrm{ch}, 1 \mathrm{~s} \mathrm{c}$ in the next six loops of scallop; repeat Wind smoothly together as many strands of the linen or cotton used for heading as are needed for the fringe, and knot it into every
edge loop.
Margaret Saúvers.

## PIES

Successful pie-makers are not as numerous as the masculines would wish; for where is there a man or boy who does not like his picce of pie to top a good dinner, notwith standing that fashion's decree says that fruit the proper dessert now.
Eight even tablespoonifuls of flour, two even tablespoonfuls of lard, a pinch of salt

Hour, and cold water enough added to the mixture to make dough (not too stiff), will make two crusts for a medium-sized pie. Roll crust for top first, trim to proper size, and lay aside. Roll bottom crust, leave one half of an inch projecting around the edge of pie-plate; fill with fruit, and season, not forgetting a little salt or butter. Nloisten the edge of crust, lay on the upper one, and roll the bottom crust up and orer the top one, pressiug firmly together. If done top ne, pressiug firmly together. If done careully no juice can escape in baking. Yes, not to have the best of the pie sizzling on the bottom of the oren. One cannot imag. ine low the little bit of soda improves the crust unless ther have tried the same.

Gyest:

## CANNED APPLES AND RHUBARB JAM

There is a time in the late winter when, having tired of dried fruits or winter fruits, one longs for a taste of fresh apple-sauce To prepare for this time, procure the Lady Blush apple when it comes into market, and put up some apple-sauce in new tin cans. Nake it as for present use, and can hot, as you would for other fruits, filling the cans full; seal with wax. It will not keep so well in glass. I have opened it in March, and it tasted as though it had just been made.
Having an excess of rhubarb one year, I put up a quantity in this way: First I cut it into inch lengths, not stripping off the outer covering, filled Mason jars with the pieces, which were then entirely covered with cold water, and the tops of the jars tightly screwed on. When opened cook in the same way as fresh rhubarb. Mine kept the same way as fresh rhubar
nicely and was much enjoyed.
A delightful jam can be made from rhubarb. Carefully wipe it and cut it into inch barb. Carefully wipe it and cut it into inch
lengths. Use equal weights of rhubarb and lengths. Use equal weights of rhubarb and
sugar. Put the sugar over the fire to melt sugar. Put the sugar over the fire to melt, with an asbestos mat underneath to keep it
from burning; let it boil about twenty miufrom burning; let it boil about twenty miuutes, skimming and stirring it; then put in the rhubarb, and boil steadily for twenty minutes. If you use old rhubarb, cook it first without sugar until it is quite tender, then add the sugar.
A very dainty conserve can be made of it by adding one pound of dried figs to every five pounds of the rhubarb. You can divide the conserve into parts and flaror it differ ently, giving one a strong flavor of ginger, another flavor with grated lemon-peel, al ways carefully washing the lemons before grating them.
Never strip young rhubarb, as the outer skin gives it a more delicate flavor aud con tains the juice that forms a jelly
You will always want these in your fruit
cupboard after the first trial.
B. K.

## SUMMER SICKNESS

In summer, when children in the country are as free as the wind, it is difficult to enforce any strict rules of diet. They are allowed to overload their stomachs day after day, at any time and all hours, and the result is an irritation of the intestinal mucous membrane, which increases until a soil is prepared for the reception, growth and development of the disease-producing germs which are the cause of so mauy summer complaints. The intense heat is also an active factor; or a cold, or any nerrous derangement brought on by a shock or fright, may also cause these distressing ail-

When the family physician is not at hand, the mother should give some mild cathartic to clear out the stomach and bowels and also flush the bowels with enemas. For this purpose a pint of tepid water to which has been added a spoonful of listerine and a spoonful of glycerin is antiseptic and soothng. Give nothing but liquid food for twen-ty-four hours. Boiled water given in smąll quantities at frequent intervals is good, or barley-water to which has been added the White of an egg beaten to a froth.
While the mucous membrane is inflamed all food containing hulls, seeds or waste should be avoided. Boiled milk, rice baked in milk, lamb broth, corn-starch, farina and white-bread toast may be given. As the stomach grows stronger, dropped eggs, chopped beef or lamb and a puree made from peas may be added.
It was a wise physician who said the best

A
SUMMER LUNCHEON DISHES on the pinza the light sort serred ummer erening is a deservedly popular forin of entertainment, and no one can compound such dainties equal to the country housewife who is fortunate
enough to have ice, because whipped cream is half the gooduess of most of them, and this is not only expensive, but that of prope cousistency is difficult to obtain.
Strawberry Thippfd Cream.-Stir cupfuls of ripe stramberries together, and after standing one hour rub through a fine sieve. Corer one half a boxful of gelatin with an equal amouut of cold water; at the expiration of half an hour place the disl iu hot water aud stir until the gelatin is well dissolved. Whip three cuptuls of cream to a
stiff froth, with the bowl standing in a pan of chipped ice, pour in the gelatin, and continue whippiug until it is quite firm; then
add the strawberrs-pulp, aud gently fold the add the strawberry-pulp, aud gently fold the mass until it is smooth aud will keep its
shape. Heap in individual dishes, and serre with white cake or ladyfiugers.
Bayarmat Cream.-Cover one half a boxful of gelatin with an equal amount of cold water, and let stand in a cool place half an hour. Theu set tbe dish orer a hot teaPut two cupfuis of cream in a chilled bowl, and whip to a stiff froth; add a pinch of salt, three fourths of a cupful of powdered sugar, one halt a teaspoonful of vanilla and one and beat them in gently. Then add the gelatin, and stir from the bottou thorougbly until the cream begins' to solidify, then pour into a wet mold, and set in a cold place to
harden. Serve with strawberry sauce and accompanied with almond macaroons.
Stramberri Satce.-Beat one and one
fourth cupfuls of powdered sugar and one fourth cupfuls of powdered sugar and one and one half tablespoonfuls of butter ing until smooth before adding graduall, beat boxful of medium-sized berries that bave been washed and drained on a uapkin.
Almond Macaroors.-Shell and blanch balf a pound of almonds; dry, and pound them to a smootb paste, putting in a few at a time and by degrees adding one teaspoonwhites of four large eggs to a stiff froth, add gradually one pound of porrdered sugar, and whip until rery light. Add this and the grated yellow riud of one lemon to the almond paste, stir well, and drop on buttered paper lu rounds no larger than a silver quar with powdered sugar, and bake in a bot oven until light brown. When done, moisten the paper on the upper side with a obtained from Mrs. Rorer, and never fails if roperly followed.)
liaspberry Motsse.-Sweeten enough ipe red raspberriesto nake one pint of juice; let them stand one hour, and then strain hoxful of gelatin in an equal amount of cold water for twenty minutes, then dissolve in
one fourtly of a cupful of boiling water. Whip one pint of chilled cream to a stiff froth. Let a bowl containing the berry-juice constantly until it begins to thicken, then add the whipped crean, and stir until thorouglily blended. Put into a close-corered mold, and pack in broken ice and rock-salt
for three houns. Serve some as brick icecreamree accompanied with angel-food cake. Layer Blajcomange.-Make a plain corn-starch blanc-1uange by bringing one pint of milk and four tablespoonfuls of sugar to the sealding-roint in a double boiler; dis-
solre three tablespoonfuls of corn-starch in an equal annount of cold unilk, add a pinch of salt, and gradually pour it into the boil-
ing milk, stirving constantly for fifteen min. ntes, then draw to the back of the store Beat the whites of three eggs to a stiff froth, and light all through, then divide it int three equal parts. Dissolve one heaping tablespomiful of finely scraped chocolate
in a spoonful of boiling water, add one
teaspoonful of ranilla, pour into the creum teaspoonful of vanila, pour into the cream
remaining in the boiler, and continue stir-
ring ring until smooth and evenly colored; add rose-coloring extract to a secoud portion to
make it a pretty pink, and flaror with a
little cimumon extract and leare the maining thitrl white, flaroring it with lemon four a pretty whaped mold in cold water evenly. Stand in a cool place for three or four hours, and serve with chocolate wafers
Chocolate Wafers.-Grate four ounce
of chocolate, and mix with it two table poonfuls of flour and one fourth of a tea
 ing-powder. Add one cupful of potrdered ugar to the roks of six eggs, and beat rer, light; add the grated sellow rind and juice of a lemon, and beat fire minutes longer Thip the whites of the eggs to a stiff froth dd the chocolate mixture to the yolks, beat, and then lightly fold in the whites of the eggs. Pour the mixture half an inch thick into buttered shallow pans, and bake in moderate oven for half an hour. When cool spead one sheet with a rery thin layer of currant or other tart jells, and place the other on top. Ice with ranilla icing, and when this hardens, cut in squares.
Thilea Icing.-Break the mbite of one large egg in a bowl, and gradually beat into it one cupful of confectioners sugar, and All the dainties given abore should be ac All the dainties given abore should

Katherine B. Johysox.

## a glance at monticello

When John Trumbull conceived the idea of painting his great masterpiece, "Declara tion of Independence," absolute authenticity was desired, and where it was possible the artist obtained the portraits from the living persons. So Trumbull crossed the water and painted Thomas Jefferson's portrait in Paris Pictures handed down from generation to generation are great educators, but object lessons are still more impressive. Virginia, we are proud to say, has many such for the traveler's ere. Never was I so interested in Thomas Jefferson, his birthplace, his polit ical career and last resting-place, as the day I sat under an old linden-tree of his plant ing, and gazed at Monticello, the home for half a century of the third president of the Enited states
This old mansion is situated on a lofty four miles from Charlottesrille. The road four miles from Charlottesrille. The road touch brauches in friendlr accord, and protect the traseler from the heated rays of the summer's sun; here and tbere along the way a watering-trough affords refreshment for the tired beasts. Fully a half mile before reaching the old hone a lodge confronts you, and the gates are thrown open by an old gray-haired darkr. I remarked while passing through, "Uncle, it's right tiresome
work "." "Yes, sah, ti'some work and little pay." (The tips are not always up to his expectation.)
The old historic Monticello, corupleted by Jefferson in 1773, caps the summit of the bill. It is built of red brick, aud the windows are of small panes of glass. The house strikes you at first as beiug rather low and not rery imposing-looking, but after making a complete circuit of the house, noticing the different entrances and casting an
the surrounding landscape
pressed with the fitness of the fou are imthe north slope of the lawn rou belold four white pillars marking the entrance four white pillars marking the entrance
where Tirgina's elite of Colonial days swept in and out-silent sentinels they are bearing evidence of the mauy decades that
have seen them performing their silent duty Would that they could have given utterance and told me of the risits of Madison, Adams Monroe, Lafayette and others, all of whon now lie moldering in unforgotten dust, while they still keep watch orer the camp-fire of Jefferson's ligbting in the valley below. Just abore this doorray is visible the double face is easy to imagine have gatlered rolume with the years, and seem to be saying of time:

## ren mar come, aud men may go

Jefferson's study, berroom, dining-room and ball-room were specially noticed, and serily this glance has made the slumbering lefferson an interesting, living reality
short distance from the louse is the railing. In front of two tall iron gates stands a plain shaft with this inscription:

## Here was burled Thomats Jefferson, <br> Author of the Derlaration

Amerken Iudependene
of the
Statute of Virglua
for
Relighe Fredom
And lather of the Eniverslty of Virginia.
Born Aprll 2, 1īt3, O. S. Dled Juls 4. 1826 Pattie Havger.

WHAT THEN?
What if the dar be cold aud dark and long? street?
Men treat me coldir and aftairs go wrong. But I to-night shall hear two little feet.
bross:
two steet lips shall press against my elaeek-
What I hear complaiuing onls nows speak?
When men are coldest aud the killing grind Weighs heaviest upou me through the da, How sweet it is to leare mas cares hehind To dance mr lorines subject on To press his face against mr . kne to Him lisping habr mords of praise for me And feel and know asian praise for m

But, oh, if after some dark day. and long. men;
If, after some sad dar when thiugs go wrong, should not hear his little feet-what then Oh. If some night when. hearr-hearted. Rush home to claim his loralty again, He should not meet me with his jorons cry-
If he were gone-what then, alas: what then:
S. Eizer, in Chicago Daily News.

## A CHAPTER ON PRESERVING

In the good old dars of loug ago, before gerins had become a ban of the housekeeper: life, we used to cook the fruit thoroughly to "keep it," and scalded the jarsso tbat they to destroy all germs, and we scald the jars to destroy all germs, and we scald the jars
to sterilize them. The result is the same, to sterilize them. The result is the sa
no matter why each process is performed. The absolutely safe way to make a rich preserve that will keep for years, if need be, is the old-fashioned way of one pint of fruit to one piut of sugar.
Housekeepers will tell you, and good housekeepers, too, that tbree quarters of a pound of sugar Will do, but this is not absolutely safe, particularly witl acid fruits. Be sure always to fill your jars very full, and screm sour corers rery tight. Air is dangerous and the least possible amount of it is For preserres and jams and jellies which are put up in cups or glasses paraffin is in raluable. It is bought from the druggist,
melted in a little saucepan, and about melted in a little saucepan, and about a tablespoonful poured on the top of the glass. When it "sets" you ueed lare
further coucern about your fruit keeping.
Narmalades are a valuable way of preser ring fruit which is not absolutely up to the mark of perfection, which is necessary for preserves. small specimens, or fruit with imperfections, which should be carefully remored, ruake rery nice marmalade, which is both healthiul aud useful for lunch, particulariy if there be children in the bome.
doctor told me that pure, home-made currant jelly was one of the healthiest of ooods, and he recommended its use. Spread on buttered bread at least three times a
week during the winter for a delicate child. A rery delicate and prettr-looking marmalade may be made from pineapples. After peeling and remoring the eres tbey should be grated on a large, coarse, flat grater, the hind that is known as a "cabbage-grater. Put alternate layers of fruit and sugar into the kettle, preserving in the case of marmalades and jams the proportion of three quarters of a pound to a pint of fruit. Cook stirring frequently; and if necessary, crushing it with a potato-masher till it becomes a mass. When it gets quite clear, and hardens if dropped on a plate, it is doue, and may be put into glasses and sealed with paraffin.
Raspberries and currants mixed, and ferr cupfuls of stoned and chopped rais
added, malie a norel and agreeable jam. (it very nice. The fruit should be pared and cored, and then cut iuto strips. Our grandmothers would have notched the edges or cut them into fancy forms. Allow a pound of sugar to a pound of fruit, aud to six pounds of fruit put four lemons and a quarter of a pound of ginger-root. Put the ginger pints of water. Then remore the ginger, and pints of water. Then remore the ginger, and add the sugar and the juice and grated rinds of the lemons. Stir till the sugar dissolves and the srrup is clear. Add the citron, and cook until it is clear. Can it, and seal it up
while hot.
If you hare large amounts of fruit to dis. pose of, the item of sugar may becone a serious one.
sugar may be nsed, or none at all if yound of the fruit in its own juice. Surely, when the
process is so simple, no bit of fruit should (l) allowed to wast

Clean and prepare the fruit, and pack it tightly in jars, and seal it at once. Put th jurs into a kettle, standing them on muffin rings or bits of wood. Corer them as high as the neck with cold water, and let it com to a boil for one bour. Then leare them in the water till it becomes cold. In this wa sour fruit is preserred in its own juice and retains its flavor. Apples treated this ma are nice for pies and sauces all winter long
For cherry preserves (a Soutbern receipt) ripe rour cherries and prick each one with a needle. To each pound of cherries put one pound of sugar. Jale a syrup of one quart fater to one pound of sugar, and wb he syup boits put in rour cherie. Let the s!rup boil pout in sour hem remain thear rou ca ee the stones; then take them out, and put in jars. Let the syrup boil till it is perfectly lear, then pour it orer the cherries, and eal. This looks rery pretty when the stems are left on the cherries.
Never wash your fruit, and never preserve ruit picked immediately after a rain.
Wooden spoons are best. except in jams, as they break and tear the fruit less.
Use only the most perfect fruit for preserring, and do not attempt to use anything but granulated sugar. A large-mouthed funne is most useful in filling the jars. $\lambda$. गI.

## SUCCOTASH

"Do tell me," begged a friend who was dining with me, "just how you make this succotash, for I never find any elsewhere as good as yours.

Tbinking that perhaps some others might like to know just how to make the deliciou dish I will transcribe my answer for their beneiit.
Go out into the garden. or you can send some one if you choose, aud pick as man lima beaus as rou think you ll ueed, but re member you'll add half as mucb sweet corn After shelling the beans put them in your kettle with enougb boiling water to cover well. Too little will allow them to burn down uuless you watch closely, while too much will spoil the flaror. If you hare two quarts of beaus add a lump of bread soda he size of a that rholesome. Let them boil fifteen minutes, theu add half as much corn, which you haf scored and scraped from the cob, one large teaspoonful of salt (more afterward if you
wish), a dash of pepper and one spoonful of mish), a dash of pepper and one spoonful o butter. Rigbt here allow me to say that if you follow the adrice given in many journal you will drain all the water from the bean before seasoning." If I wished a flat, taste less mess I would do this, otherwise I would not, as the water contains the essence nnd flavor of this delectable dish.
When the succotash has boiled fifteen or wenty minutes after the corn is added, pour in one pint of sweet creaur, let it just conie to a boil again, taste to see sufticiently, then "call your friends and neighbors in," and I'll warrant they'll "ris up and call you blessed

Cora Amatida Lewis.

## BEAUTIFUL HANDS

Not alone within the mansion
Where the lords of earth resld
In the city's broad expansion,
And the gilded halls of prid
But Tithin the rural gemtage
Toiliug for their dails pottage,
Lorels hands are often found
Beautiful hands are those that do
Deeds of love the whole day through
Oft the hand of rings encumbered
Oft the hand of rings encumhered
Has no charm for hleeding grief.
While the toil-worn hauds a re uumhered
With the hauds that give relicf. Wealth and pride can add no beauts To the grasping hand of greed. But the hand that does its duts Shall be counted fair indeed.
Beautlful hauds are thes that Deads of lore the whole dar through

A LOW WAGON AT A LOW PRICE Win order to int roduce their Low Ietal Whee
With Wide Tircs the Empire Manufacturiug Co ,




IN THE YEAR OF OUR LORD
The decree of Asshur and Cbemosh and Be If my children refuse, at my shrine, By the sword of my wrath they shall die. and up through the clouds of the incense smoke
Leaped the quivering tongues of flame, That spake of the cities and souls, destroyed For the glory of each dread name.
And Jareh hrooded, with fierce bent brows, Orer Al, that little town;
its altars blackened, its hearthstones cold "Thou shalt stretch thy spear o'er the curse

From the rise till the set of the sun Bel,
In that hour shall thy task be done?
Wbile he of the Egis watched the eart From the snows of Olympus' height; And the tears and woes of his helple
Seemed good to his pitiless sight. Seemed good to his pitiless sight.
His presence was shrouded in
His presence
But his roice through the thunder spakeWben I nod my head all the gods shall bow,

But ahore and beneath and behind them all There waited that Unnamed One, Whose heart is Pity, whose hreath is Peace Till a new star piercing the Till a new star piercing the Shone forth o er a ctle shed, here Caspar and Melchoir and Balthazar
and orer the untamed beart of the world Did a comfort undreamed of creep Like the sapphire dome of the heavens was high,
Like the unfathomed ocean, deep. Not conquest, hut war's surcease; ot sacrifice, hut a contrite heart For the old-time stri-ing-Peace i cross was the throne he won A reed for a scepter; a crown-but of When the work of his life was done. but Chemosh and Jareh and Asshur and BelLike to smoke wreaths, they fade away Father, forgive them-they did not
Is the prayer Love's white lips pray.
0 ye who how at hls nail-pierced feet And own him your Lord, to-day-
sound,
What meaneth the dread array,
That surges out from the hoary
That strldes from the golden west,
the snow-covered north-from the fower-wreathed south,
the kings of the earth's behest ?
Banners and standards of countless hues;
Trappings of silver and gold;
The lightning gleams from saluting swords
steel-mailed squadrons, to guard
Fortresses guarding the land;
The clamor and crash of the can
Enforcing war's grim comman
Shall the years tbat hare slipped nineteen hundred times
Through Eternity's fingers pale,
In the end he of no avall?
In the end of orall? guns,
But until war's wrong shall cease
Your llves disprove what rour lips $p$ -Frances Bartlett, in Boston Transcript

## SOME HOMELY TRUTHS

HDW MANY of us resolve to do some "when we get time?" We We rush from day to day promising ourselves the fulfilment of honest intention, yet the time slips by and we never seem to find that opportunity for good that is always just a wee bit ahead of us in the fu-
ture. "When I get time," says the young mother, "I will train Jamie to be more courteous." "TWhen I get time," says the growing daughter, "I will relieve mother of some of her burdens." "When I get time," says
the wife, "I will read and dress up and try to make myself morecongenial to my husband.' Alas! so few of us find the time. Jamie goes on growing more and more unbearable beyond the training habit, and his mother sorrowfully recognizes the fact that he is a
boor whom nobody can tolerate, she wishes with all her heart that she had taken time to mend his ways when the one moral stitel would have done more good than the nine taken when the hole in his manners was beyond repair.
The daughter lasn't the time to help her mother. She means well; she often worries as she sees the dear person growing more and more feeble, but it is not until that nother has exchanged time for eternity that she realizes all sle coulc have done if she fish routine of her own existence and applied them to lessening the labor in another's.
So with the wife-she hasn't the time to fix up, she hasn't the time to keep herself rell informed, and when the husband naturally wanders to fields more congenial, she rebukes herself for not having stolen a few moments from her other home duties to give to the first and foremost exactions of her domestic life.
We haven't the time to do so much that would not only benefit ourselves, but others as well; yet we have the time to enter into a dozen and more enterprises and schemes Philadelphia Times.

## "LOOKING FOR TENDERNESS"

The original name of Sarah, the wife of Abraham, is said to have meant Strife, but this was afterwards altered to Princess. She plexion was probably a lovely contrast to the dark skins of the Nubian and Ethiopian women of Pharaoh's court But beauty wo men of ehion no more sumient to make happy home than beautiful colorstoresist a shower of rain. We cannot deny to Sarah many good qualities. There was an intense devotion to her husband, enabling her to make the supreme sacrifice of a woman's life. There was a profound belief also in the divine promise, so that by faith she was able to bear a son in her old age because she judged Him faithful that had promised. And there was the love which He was able to inspire and maintain between herself and Isaac.
But with all this Sarah was undeniably hard with Hagar. "She dealt hardly with her." Ah! there are other ways of dealing hardly with people than by laying violent hands on them. But all these are forbidden by the law of Christ. Bitter speeches, unkind and cutting insinuations; the always reminding people of their past failures and present weaknesses; the absence of sympa-
thy in crushing sorrow or unendurable pain thy in crushing sorrow or unendurable pain those who, like Sarah and Hagar, are compelled to live under the same roof; but they are not to be once named among us as be-

## cometh saints.

The story is told of a distracted man who used to travel up and down one of the prov inces of France, going from house to house, entering unbidden; wandering from village to village, accosting men, women or children whom he met always with the same question, "I am looking for tenderness; can you the country foll it.
The cound cent wanderings, and would say, "Have you not found it yet?"
"No," would be the sad reply, "and yet I have searched for it everywhere,"
"Perhaps you will find it in the garden." Off he would hurry. The gardener migh refer him to the stable, and the stable-boy to the next house; the next house to the next village. So, mournfully, to the end of life the poor imbecile wandered on, half conscious of his hopeless search, half realizing the ridicule with which he was everywhere received.
Let us live that we may not have to stand where the vicar, Amos Barton, stood, and utter his words over some life with which we dealt so hardly that it fled from us "Milly, Milly, dost thou hear me? I didn' love thee enough; I wasn't tender enough to thee; but I think of it all now."
'You place this flower in her hand, you say, This pure, pale rose in her band of clay
Methinks, could she lift her sealed eyes
They would meet your own with a grieved surprise.
When did you give her a flower hefore?
What a travesty of a home is
quarreling and bickering are always filling
the air with the clash of swords! We can
well understaud Solomons verdict-and he well understaud Solomons verdict-and he had the experience, not of two women, but corner of the house-top than with a conten tious woman in a wide house." Dear woman,
do keep your tongue quiet; and if you cannot; ask the Lord to do it for you; and if your heart is full of jealousy and passion open it to him that he may divert the rive of water of life, which is clear as crystal your feelings, let it be in kind deeds.-F. B Meyer, in Christian Endeavor World.

HOW DO YOU WALK?
graceful carriage is obtained by first knowing what to avoid. Go out in the street and notice the walkers in front of you. See
the lady that waddles so along the street that you are reminded of ducks. Observ the man beyond her, how he racks from
side to side. Notice the young lady who raises her head and throws back her shoul ders, and walks as if her spine were a bolt
of iron running into her head, stiff even to her fingers.
Observe the young man who, while all the rest of the body is manly, droops his head in a sheepish way. Or note the other one opposite, who, with head thrown far back thrown high as to give it a rakish air. Observe the fingers spread out as if he had something sticky, while the one in front makes his hands
Watch the motions that give the ungrace ful poises, and endearor to correct them by
the law of opposites.-Hcalth.

## DO SOMETHING

Each nember of a Christian church should be a worker for Christ. Our Lord has neve granted a dispensation to a single one of us;
would any of us desire that he should? His rows are upon us all without exception Ar we each obedient to his word, "Occupy till I come?" Are we putting out our talents to interest? If we are not doing so, we can labor. We are bidden by the Holy Spirit to labor to enter into the rest of God; it is the way thereto. Idlers are unrestful, fidgety, worried and worrying, fretful and fanciful, piest who are most completely to the service of God, and most fully ab to the service of God, and most fully ab
sorbed in obedience to his will.-C. H. Spur geon.

## THE PEARL-DIVER

The Christian is like the pearl-diver, wh is out of the sunshine for a little, spending his short days amid rocks and weeds and dangers at the bottom of the ocean. Doe he desire to spend his future life there? No but his master wants him to. Is his lif there? No, his life is up above. A commu nication is open to the surface, and the fresh Is he life comes down to him and from God Is he not wasting time there? He is gather ing pearls for his master's crown. Will he always stay there? When the last pearl is gathered, the "Come up higher" will beckon him away, and the weights which kept him down will become an exceeding weight o glory, and he will go, he and these he brings with him, to his Father.-Professor Drum mond.

THE PERNICIOUS GRUMBLING HABIT Do not lct your child acquire the habit it will never become a habit. If there is just cause of complaint, try to remedy it; if there is no possibility of improvement, teach that silent endurance is the best way stay in a place and orumble If the thing tay in a place and grumble. If the thing environment. If on reflection you decide that, balancing one thing with another, you would rather bear the ills you know than to fly to others that you know not of, bear them in silence.

Somebody once asked Queen Victoria's late physician, Dr. Jenner, if anxiety ever caused him to lose sleep. "Thyy should it?" he said "I go; I do my best. WV
Why should I lose sleep?"

And ribo would murmur or misaout,
When God's great sumrise finds him out?
-Mr's. Browning
Jarne's Expectorant is a sorereign remedy
for Coughs. It clears, the Bronchlal passage

HOT WEATHER DYSPEPSIA
Thousands Suffer From It at This Season of the Year
Hot weather dyspepsia may be recognized by
the following symptoms: Depression of spirits, heaviness and pain in the stonach after meals, taste in the moun. especially in the morning wind in stomach and bowels, irritable disposition,
nervous weakness, weariness, costiveness, headacbe, palpitation, heartburn. It is a mistake to ers," "cathartics," "pills," hecause the whole trouble is in the stomach. It is indigestion on
dyspepsia and nothing else.
All these symptoms rapidly disappear when tbe
stomach is relieved, strengtbened and cleanse hy Stuart's Dyspepsia Tahlets. They should be
hy Stren taken after meals and a few carried in the pocket to be used whenever any pain or distress is felt in
the stomach. They are prepared only for stomach

Stuart's Dyspepsia Tablets are indorsed by such physicians as Dr. Harlandson, Dr. Jennison and nto teacids and fruit essences which when the food hefore it has time to ferment and sour, which is the cause of the mischief.
Stuart's Dyspepsia Tablets are pleasant to take
and unequaled for invalids, children and every person afficted with imperfect digestion. It is afe to say they will cure any form of stomach trouble except cancer of the stomach.
Nearly all druggists sell Stuart's Dyspepsia
Tahlets, full-sized packages at 50 cents. A book
FIRST PRIZE.
a beautiful shetland pony and Cart.-any child can drive
IT AND TAKE ALL CARE OF IT.


 person sending in the correct count. And in ad
dition to this grand prize we will give:
\$50 to the one sending within 1 of the correct count








Boys \& Girlsna Wavavide
 opportunity Write for the outfit today. Address sil orders to
Imperial Ink Concern, 62 Adams St. Oalk Parls, IL.
GENUINE TAMPA SMOKERS

## \$1.00 Per Box

(hig I will send a box (25), express prepaid, to any

address in the U.S. upon receipt of $\$ 1.00$. Send aro orde E. L. GROSS,



LOOKING BACK WITH BEN
h, do you rememher last Tinter. Ben Bolt

$$
\begin{aligned}
& \text { When the merecry slid awa domn: } \\
& \text { Then it seemed that your nose would be }
\end{aligned}
$$

Ere you go to sour office down town-
Those dars when we grumbled at twent
And the water-pipes froze every night-
When we scolded the plumber for heing so
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$
$\square$
$\qquad$

WA FALSE JEWEL E틀 rs. Smith declded to gire a started. With that in erent of the the promising Mary. her cook. an extra Teeks,'s
wages if she would do her hest to make the Wages if she would do her hest to make the
party a success. Finding that she would Marr if she knew ans one that she conld get.
"Snre, mum,"" answered Marr, "there"s me sister "hat's nsed to waitin" an" who'll he
glad to get the chance, for she's a poor gurl As Mary herself mas a jewel. Mrs. Smith ceived orders to have her sister on hand. Mars's sister reported for duty, and Mrs.
Sinith gave her minnte instructions horr she shonld act, wishing to give the guests the impression that she was a regnlar memher
of the household. Things went on swimmingly until Mary sister, seeling in one of the guests mas ou lads mould bave "anither." The guest swil
ingls answered that she mould, $\begin{aligned} & \text { mherenpon }\end{aligned}$ Marr's sister, snatching up the cup, hamled
across the room in the most approred cheap restaurant code. "Draw one:" - Detroit Free

## a time for sllence

 grandmuther decied to place a poultice over
the wound. The bos resisted rigorousls. the wound. The boy resisted rigorously.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
WHAT THEY SAID
The editpartlculars of the death, and meeting is dur-tient who swatorwad a thermomet er and dipa
by degrees."

died In guod wis fuart of apple.jack and


FREE DISTRIBUTION OF 100,000 BOTTLES WORKING MIRACLES EVERYWHERE

Agents at Work Reaping a Harvest-\$7 to \$12 a Day Easily Made-If You Want Big Money
Write Us Now

The free distrihution of Dr. Swift's Rheumatic | sulted many physicians, hut none of them have and Gout Cure is working wonders, and grateful erer given me any relief. Two months ago I was testimony from people who hare suffered for years told of the miracles of Dr. Swift’s Rheumatic and without relief until cured hy the famous physi- $\begin{aligned} & \text { Gout } \\ & \text { In two weeks more I was cured. Not a pain or }\end{aligned}$ cian's great specific, pours in constantly. ache has since re-appeared. I sleep elegantly, Not four cases in a hundred can withstand the READ OF DR. SWIFT'S MANY MIRACLES Mr. G. H. E. Barker, of the Central Station, Buffalo, N. Y., says:
"In Scotland, two
 agony. It kept growing worse, and I could Address Dr. Swift. Swift Buildiug. Jew Iork. If have taken I do not know how many kinds of both have iu your life, be sure and write us, and we

## $\$ 100.00$ in Gold Free. AEEGIKLMNNOOOOPRRWYY <br> BRAINS COUNT Wwe LWen hno Hen

$\qquad$
Litele booz- Yes in. Ther. Is alimays object
ing to somiethlng or wher."- - redilt Lost.
"Mow, lerce, if soll re : really good boy
$\qquad$

## BRIGHT BITS

saly, walter, thls salmon cutlet Isn't hal
good as the one I had here last week."
$\qquad$
almost criminal neglect

## "Here," said the statesman, who had heen emporary chairman of the conrention, "I'a like to know what kiud of a party organ

"Why," the editor asked, "What's wrong?"
"In your account of the proceedings you
ave not once referred to my speech as

ACCOMPANIMENT
$\qquad$
$\qquad$

For the New Revised and Enlarged 1899 Peerless Atlas of the World and Pictorial Gazetteer of All Lands. PRICE VERY LOW.



Raising the Flag of the United States Over the Hawaiian Capitol Building in Honolulu During the Annexation Ceremonies In an Upper Corner is a View of the Building from a Distance

# From the Wreck of the Maine to the VICTORES NIT P PILLPPINES 

Our new book, "Photographic Panorama of Our New Possessions," contains over

## 300 PHOTOGRAPHIC VIEWS

Which are a marvel of scenic beauty, fascinating entertainment and valuable instruction. The more than three hundred photographs reproduced in the book represent an expenditure of a great deal of time and money, while some of them were taken at moments of extreme danger to life. Each page is 8 inches wide by II $1 / 4$ inches long.

## History Told in Pictures $\& * \pm * \pm *$

So that it is understood and enjoyed by all members of the family, from the youngest to the oldest. While enjoying these realistic pictures important historical events are painted on the mind, never to be forgotten. The book contains over 300 views of picturesque scenes and interesting objects in
The Philippines, Cuba, Porto Rico and Hawaii
Also numerous fine scenes in the United States associated with the Spanish-American war: as, camp pictures, life in the army and on the war-ships, etc

In the book the illustrations are very r.uch clearer and plainer than can be shown on this page, as they are printed on more costly paper, highly polished.

The reading matter in the book gives a brief, interesting history of the islands, descriptions of the pictures, and information on climate, population, products, commerce, resources, etc., etc., etc., of the Philippines, Porto Rico, Cuba and Hawaii.

Farm and Fireside One Year and This Grand Book Only

40 Cents
It is easy as play to get up clubs of subscribers to the Farm and Fireside and this book at 40 cents. We give valuable premiums free as rewards for getting up clubs. Send for our Premium Catalogue. Order by Preminm No. 43 and address

# TWO GOOD BOOKS FREE 

 to any one.... 25 CENTS FOR FARM AND FIRESIDE The remannder sending only 25 CENS FOR FARM AND FRESIDEOF THIS YEAR.....
We live in a Book age! Improved machinery makes it possible to now print valuable books at only a small fraction of the expense necessary a few years back. The following list includes some of the best productions of famous authors, works that are popular because of merit. Every household should possess at least a few of these good books, and our liberal offer makes it possible to obtain them free. We make no profit on the books. Our object is to increase our list of subscribers for Farm and Fireside, the most popular farm journal published.

THE CHOICE OF ANY TWO OF THE FOLLOWING BOOKS FREE TO ALL WHO ACCEPT THE ABOVE OFFER

## ANECDOTES OF THE REBELLION



No. 985. A grand collection of warstories and camp-fire yarns. Every dent connected with the Civil war Every one will be glad to own this book. By telling these stories, speaker can keep an audience in
laughter or tears at will. It gives anlaughter or tears at will. It gives an ecdotes of Foragers, Raiders, Scouts, Stories of Prison Life, Union and
Confederate Spies, of the Generals, ontederate spies, of the
incoln's jokes, etc., etc.

## HER ONLY SIN

Yo, 999 . By Bettha Mr. Clay, author of "The Shattered
Idol," "On Her Wedding Mor," For stories of love, adventure and romance, delight tfully told, replete with stirring incidents that will hold the reader fron the beginning to the end, there are, few better
than those of Bertha 11 . Clay. "Her Only Sin" in fine. It than those of Bert ta read ina. single evening, for once you is just the norel to read in a single evening,
begin you can't lay it down till you know the end

## A BIRD OF PASSAGE

No. 960 . By Beatrice Harraden, author of "Ships That Pass in the Aight, which had a wonderrul sale through popular stories than Mliss Harraden. "A Bird of Passage"

## THE ARTS OF BEAUTY

Ko. 9ัّ2. By Shirley Dare, the most famous American
writer on subjects peitaining to ladies' toilet. This is a writer on subjects peitaining to ladies toilet. This is a
splendid book for gills and women. Gires honest and paluable instructions about making the toilet, keeping healthy, young and beautiful, etc.

## THORNE'S POULTRY BOOK

So. 965 . A complete and standard guide to the manage-
nent of poultry for domestic use, the markets or exhibi
tion. It suits at once the plain tion. It suits at once the plain poulterer, who must make the business pay, and the chicken fancier whose taste
for gay plumage and strange, bright birds. It answers
fhe dend for gay plumage aud strange, bright demale for a book covering the whole ground of breeding and care of poultry, and at small price. It gives
diagrams of poultry-houses and tells how to manage them; directions for care of hens, ccirchens, turkers, ducks, geese guineas, pigeons, etc.; description of poultry- diseases and
their remedies, including a complete discussion of fow cholera, with the most approved methods yet discovered
for preventing its ravages. Titl many illustrations, some which are handsome, full-page illustrations of the various

## ON HER WEDDING MORN

Jo. 990. By Bertha M. Clay. In the world of fiction
there lave been but ferv characters to whom the sympathies there have been but few characters to whom the sympathies
of the reader goes out with more tenderness than Hulda Yane, the heroine. This is the companion noyel to ""Her
Only, Sin," and will be read with the same intensity of Only' sine", and will be read with the same intensity of
feeling, with mingled joy and sadness as the characters in
the the book have cause for tears or laughter. It is a love

## GOOD MANNERS

No. 970. Edited by. Mrs. M. W. Baines, A manual of
true politeness, containing chapters on good behavior recen. tions, dinners, parties, balls, letter-writing, courtship and marriage, anniversaries, etiquette in public, customs regard-
ing funerals and mournings, etc. The book contains twenty THE IDLE THOUGHTS


OF AN IDLE FELLOW
No. 999. By Jerome K. but extremely unpleasant complaint, "the blues", this tive cure. Mr. Jerome is sometimes called the "Eng certainly one of the best living writers of pure, whole
some fun. There is not dull line in the book. Every With flashes of brilliant wit or another, had "the blues," or been "hard up?" Who a royal treat read the author"s thoughts on theseand numer
ous other subjects. The "thoughts" which fill a book may be "idle," as the author terms them, but they certainly

[^2]


THE BIICKEVE STEEL FRAME BUCKEYL graid dant


In buying a Drill you should seek
that one which

## POSTIVE FORCE FEED

 High, Braad Tired Wheels su that the draft hay be light; Steel Frame which is lighter and stronger than wood; baring aLitter Bar that will RAISE THE HOES EASILY: a rachet device which will drive the feed from

ALL GROUND MAY BE SOWN IN TURNING EITHER WAY
P. P. MAST \& CO. if Canal St, SPRINGFIELD, ohto.




DeLoach Variable Friction Feed

## siw.indis. arp polmar becmuse of merli. ginar-





7 $\$ 5.95$ Buys a Man's All-Wool Suit
 LARKIN SOAPS AND PREMIUMS.-FACTORY TO FAMILY Send for a beautiful booklet free. It
tells how to obtain, free, the famous Larkin premiums worth $\$ 10.00$ each. The Larkin Soap Mfg. Co, Larkin St, Buffalo, N, Y


FOR OFFICIAL MAP
City of Los Angeles
N. E. A.
pamphlet
UNION PACIFIC RAILROAD
A. G. SHEARMAN
Gen'I Agt. Pass. Dedt. U. P. R. R. Room 36. Carew Bldg. Cincinnati, Ohio

[^3]

OPIUM linuor Habit cured in

Vol. XXII. No. 20
CHINESE AGRICULTURE
V.-PLANTING AND HARVESTING be william n. brewster

RICE is to China what wheat is to
Anierica. It is a noble cereal, but Anierica. It is a noble cereal, but its culture is far more laborions and difficult than that of wheat. To begin with, the soil must be plowed in the water, it must be pulverized and made covering it. A month before planting the rice is sowed broadcast in a bed especially prepared for it. When the plants are about one foot high they are taken np and transplanted in the field in rows eight or ten inches apart. Each plant is put into the
soft mud br hand, one at a time. While soft mud by hand, one at a time. While
growing water must be supplied every four days by one of the processes described in the previons article on irrigation. Plowing is impossible, but while the plants are small they go over the field once erery fifteen or trenty clays on their hands and knees in the weeds and working over the soil with their ringers. This is done at least twice. From eighty to ninety days after planting the grain is harvested.
In Fouth China ther take two rice crops rgion between the belt where $t$. In the re easily obtained and the belt where the are easily obtained and the belt where the resort to a curious method of obtaining two crops. In the first place they gain time by sorving in beds, as above stated. After the first crop has been growing about sixty days, another planting is made between the rows of the first. It hen the first crop is lipe it is carefully cut, bunch at a time, with their little short sickles, and the second crop i one third grown when the first is harvested have ever seen or heard of.
It is simply a fight for existence in thi densely peopled part of China. They must
there is even a partial failure of either crop prices advance to semi-famine rates And so, where the season is too short to allow the full time necessary to mature both crops they orerlap them by this ngenions bnt laborions method.
The implements and methods of har rest are those used in the days of Ruth and Boaz. The little grass-hook cuts the straw close to the ground. An armfu of the grain is carried to the threshing machine, which is a marvel of simplicity. A big tub is placed in the field. A wor en bamboo năt stood on end inside the tub, encircling two thirds of it, prevent the grain from flying ont, and on the the grain from flying ont, and on the open side stands the workman, ponndin he wo the wooden grate placed across the tup Three or four blows and the grain is in the bottom of the tub. Chickens conld not fatten upon that straw-stack. A night machine, straw and grain are car ried home. The next day the process is continued, and until the family fields are cleared. In many cases even the stubble is pulted out by the roots and dried and nsed for fuel or rotted in vats for fertili zer. Sometimes when the condition of the soil is favorable the entire stock of grain is pulled out by the roots and the hole of the plant is saved.
Wheat is sown in Norember and har rested in March in South China. Its cul ture is not essentially different from that America, except the tools are all primitive and require a maximum of labor for a minimum of results. Harresting is much the same as that of rice, but it does not fal off the heads so easily as rice, so that it is carried home and threshed on the threshingparement in front of the house. It is nevel stacked or "shocked" in the fields. If it were it wonld not be there the next moril ing unless guarded all night.
It is not tramped out by cattle. That would be too expensive and wasteful. It is pounded by the old-fashioned flail. Then it is winnowed by the simplest process



## Threshing Beavs with a Flat

conceivable. The farmer waits until a good reeze is blowing; with a dipper he scoops up two or three pounds of the grain mixed rith the chaff, holds it as high as he can each, and lets a thin stream flow from the dipper. The wind does the rest. If one winnowing is not sufficient the process is repeated. The wheat is dried in the sun apon the threshing-floor and stowed away in bins in the farmer's house. He has no barn. t would be of no use to him if he had Everything in it would be stoleu the first ight. The straw however is neatly ricked outside, and is made cood use of in man ays. Not a particle of the crop is wasted. Bnt there is another staple article of diet, especially in the sandy coast regions of South China, that is used by all ex. cept the comparatively rich far more extensively than both rice and wheat combined.
Sweet potatoes are much cheaper, and flourish on lands that cannot be flooded for rice. They are cnltivated in essen. tially the same way as in America. But prepared in a way peculiar to China. As soon as dug they are cnt into thin slices by shaving them npon a kuife fixed in board shaped moch like a large carpen boar's shane lape une slices are scattered over the field from which the potatoes were dug, and dried in the sun for three or four days. This is done the last of November or in December. It is nsually dry and frosty at this season. When half dried they are gathered and spread much thicker upon the threshing-floor, of which every house has at least one. Here two or three nights of frost and days of sun suffice to dry them thoroughly. These slices are then as hard as sole-leather, and nearly and eaten by millions of Chinese as their staple article of diet.
Beans grow at the same season wheat, and alnost in as great quantities Bean-curd is a staple article of diet, and the heans are cooked in a great variety
of ways. They are harvested at about the same time as wheat, and threshed with a flail.
Peannts are grown in quantities in the same region that produces the most potatoes. When digging-time comes the whole population turns ont. All the school have a vacation. It reminds one of Cape Cod in the cranberry season. Men, women and children are sitting or kneeling in the dirt, a row of them crossing the entire field. A little wooden paddle and a bamboo basket are the only tools, and they scratch the earth like chickens.
nother method is sometines nsed. The field is flooded and the ground plowed and stirred up with rakes. The peanuts when loosened from the soil come to the surface of the water and are skimmed off. They claim that this requires less labor; it is cer tainly less picturesque. The workmen and workwomen are mud-bespattered from head to foot, and are a sorry-looking sight.
These brief sketches are not intended to be exhaustive of the subject. Nor are they descriptive of all China. Donbtless many of the methods and principles herein described are quite common to the empire, but let no one assume that they are. They are accurate for Hingua and much of Sonth China. Methods quite different are in use in other parts of China.
The Chinese farmer uudoubtedly has a great future as he has an extensive past He will change his methods slowly, but be will change. He will be very careful to be sure the new is an improvement upon the old before he discards the old for the new. And when he unites his practical experience, patience, industry and marvelons econom with Western knowledge aud enterprise he will astonish the world with his achiere ments.
It is the Chinese, not the Filipinos, who will make the new American island empire a veritable Eden in beauty and fertility in the twentieth century. Ther will do it because of the qualities and experience and methods brieflysketched in these five papers [CONCLUDED ON PAGE 7 OF THIS ISSUE]

FARM AND FIRESIDE The Crowell \& Kirkpatrick Co.


TERMS OF SUBSCRIPTION
One Year $\quad \begin{aligned} & \text { (24 Sumbers) } \\ & \text { Six Mionths } \\ & \text { (12 Sunbers) }\end{aligned} \quad 50$ Cents
30 Cents The above rates inclue the payyuent of postage hy
ns. $A 1$ suls srititions commence with the 1 ssuie ou
press whell order is received.


Payment, when sent by mail. should be made in Ex
 Silver. When sent through the mail, should be care-
fully wrapped in clott or strong paper, so as a cot to
wear a hole tlirough the euvelop aud get lost. Postakestamps will be reecired in payment for sub-
serlptions in sums lest than one dolar.
25 cents in tin stamps tou tery


## The date on the "rellow lavel" shows the time to wlich each subscriver has paici. Thus jo jugg uneans

 that the subseription in paidaug99, to dugust, 1899, and so on.
When money is received, the date will be changed
within four weeks, which will answer for a receipt.
When renewing your subscription, do not fail to say
it is a renewa. If all our subscribers will do this,



## The Advertisers in This Paper

We telieve that all the advertisements in this paper
are from retiahte firms or husiuess men, and do not
ind
 mention this paper when ansisering advertisements,
as advertisers often lave differeut things advertised

## |hafr-Hithangunt


 cussion recently-I am thankful to say that I beliere that it is a one-sided kind-due to
the statements of certain gentlemen who the statements of certain gentlemen who
hare amassed large fortunes, to the effect that they do not beliere in a college education. This country could better afford to lose every man in it who had amassed a large fortune than to lose one half of its college bred men. We can get on without the men of immense fortunes. Sometimes we call do rery well indeed without them, but we could not do the best work possible the men who took the chances of sare for the nen who themselres so that they can fered to train themselves so that they can
do the fine and delicate work which must be do the fine and delicate work which must be a purely material basis.
"If your college training teaches you to think that you belong to a little select set of
people apart from and unsympathetic with the people apart from and unsympathetic with the igated curse, and it turns you out useless to your country and to yourself; but if your
college turns you out feeling that you are exactly like your fellows, save that on you rests the hearier load of respousibility, because you hare liad exceptional advantages; erer before your sense of identity with
them, and your sense of duty to the state if it gives you a higher purpose; if it gives work, and does not divert your mind from the fact that you are to do that work;
your college education has done all this, has made you immeasurably better citizen than you were before.
"Abore all, do not become of the class of so-called highly educated and cultured who sneer at American institutions alud Amer
ican customs. If you recognizc a fault, com ican customs. If yout recognize a fault, come
forward and expose it, and strire to remedy forward and expose it, and strire to remedy
it. Do not become one of the class who lose it. Do not become one of the class who lose faith in the ability of Americans
either themselves or their islauds.

A forcible address before the Boston Barrett, former minister to Siaru, testified that Aguinaldo's rebellion against the authority of the Cnited States was incited by the words and deeds of the "anti-imperial He said in part:
"I have every consideration for those ruen who object to the acquisition of the Philippiues, and beliere that discussion leads us of the whole situation. I bring a message from the thirty thousand soldiers there, and I say that the injury was not done in the way of hindering our men in their efforts on the field of battle, but in spurring on and giriug new life to their enemies.
"Dewey"s greatest feat was not that of destroyiug the Spanish fleet in Manila bay; but that of making the United States respected as a first-class power in every Oriental capital. If you wish to bend your aud prosperity which this country has erei experienced, use your strong influence in Boston and Sew England with San Francisco and the Pacific coast, uot only to successfully grapple with the problems in the Philippines, but to maintain the open door "I am not an imperialist nor an Chiua "I am not an imperialist uor an expaning of these misleading terms, but a simple belierer in meeting our moral responsibilbeliever in meeting our moral responsibil complicated us in acts of far greater uncomplicated us in acts of far greater unnow concerned; such as, for instauce, international war on the one hand or absolute anarchy in the islands on the other hand, in the event, as would hare been necessary,
that we had left Manila and the islauds before stable, native government or acceptable foreign protectorate had been established, neither of which could have been accomplished in case of our departure within a year after Dewey entered Manila bay.
"I wish to protest against the most unfortunate influence of this Anti-Imperialistic Society, which has resulted not in reaching to any great degree our military or naral forces, but has giren unlimited comfort, aid and encouragement to their enemies. I speak in no exaggerated terms. On the battle-field, along the firing-line and in the camps and hospitals I heard the rank and file of our brave soldiers inveigh against the the mouths of not only tamiral Dewey and General Otis, but Generals MacArthur, Anderson, Hale, Lawton aud Brigadier-General Otis, Colonels Smith, of California, and Summers, of Oregon, aside from scores of opinion expressed in no uncertain terus that the most encouraging influence for the Filipinos iu fighting us, and heuce the puost unfortunate one for our soldiers and sailors to combat against, was the spreading of the sentiment and ideas through the ranks of the Filipino army and among the masses of the natires that our occupation of the islands was unwarranted, the war unprovoked, our
army and nary unsupported by our people, army and nary unsupported by our people,
and our country about to demand the withand our country about to demand the withdrawal of our forces from the islands, the and ignominious withdrawal from our re sponsibilities-incurred, in fact, not by a spirit of conquest, but by the logical development of war where we had to protect our interests and destroy those of the enemy tition. many good lives in battles which I beliere many good lives in battles which I bellere ratified at an early date, and the Filipinos not been led to believe that by holding out and fighting us they could gain their end, contend that I am indeed provided with a sufficient excuse to refer to this subject with so much plainness on this occasion
citizow, last, I must tell you something, as I dislike to tell you, but still which is true It refers to the effect of the speech of one of your senators against the treaty: As he is a I would make no observations whatever against his personal claracter. I mercly relate a few facts. It happened that I was in lIong-kong the day that the report of thi Meeting a prominent man connected with the Philippine, Junta, I was shown by hin with great satisfaction a long telegram
which hehad justreceired from Washington He handed it to me to read. It contained a rerbatim report of the most sensational or strongest part of the senator's speech; that was followed by a summary of his othe remarks, and that in turn by a statement of the uames and number of the senators who were expected to oppose the treaty, and finally coucludiug with adrice to the Fil pinos to hold ont without surrender or ielding to the Americans. This was so extensive and so well done in its way that almost stunned ue. When I recorered from my surprise I asked the owner of the dispatch what he intended to do with it
'Hand it to Aguinaldo, of course, and h will hare copies on the "I and among the people,' he replied.
oing this, although personally I did my best, as did others, to present such eucour best, as did others, to prevent such eucourtlemen, you can draw your own conclusion as to the effect of such literature among as to the effect of such literature among a people excited as the Filipinos. It was like
water for the parched mouth of a man dyin ater for the parched mouth of a man dying thirst and keep him cool, but it made him a maniac, so that he resorted to fighting and eveu treachery until death.

AT THE national conrention of commercial ravelers recently held in Albany, N.Y. a menace, especially to the employment of commercial travelers." When two conceru making the same articles are combined into one the services of one corps of trareling salesmen are dispensed with. Cutting of useless expense is one of the main reason for combination. In an article on modern industrials in "Junsey"s" the late Gorerno Roswell P. Flower said: "The possibilities of economy in production are euormous Recently some wagon manufacturers cam to New York to organize for the capitaliza tion of their business. They figured out a reduction of oue half of their trareling salesmeu by this combination. This and other economies aggregated nearly four hundred thousand dollars, and the net profits of the concerns had not amounted in the aggregate to wore than two hundred and fifty thousand dollars within a year. That is what capital combinations are doing fo business. They are making it possible for business to be conducted at the lowest rate of expense, because the concern of great capital is independent of the banks, and can eapen carry its own insurance. Combination eren carry its own insurance. Combination
is increasing the wages of labor while is increasing the wages of labor while
cheapening the cost of necessities as well as cheapening the cost of ne
luxuries to the consumer.

A
A Vitional exposition of American man will be held in Philadelphia, Septenpor $1 \pm$ Norember 30,1899 . The following special from the department of publicity and promotion briefly outlines the plans of this orthy enterprise
The National Export Exposition to be held in Philadelphia this fall will be tho oughly American in tone, and entirely distinctive in scope and plau. Its primary object is the expansion of the export trade of American manufacturers, and with that end in riew all that is uew and good, that has been, can or may be exported, will be on exhibition. The exhibits will be from the broad-gage manufacturers of the United states who hare such confidence in their goods that they kuow they can compete with the goods made in Germany, England and France which are exported in large quantities to foreion countries. These goods will be shown side br side with samples of foreign goods, so that our manufacturers can compare our products with those of foreign countries. Another dellartment of the position will show how to label, ship and mark goods for all foreigll countries.
"Another feature will be the Internation
ommercial Congress held in connection with the exposition. This will conrene on with the exposition. This will conrene on October 10th, and will have as delegates
representatives from all the commercial representatives from all the commercial
organizations of the large cities of the world. organizations of the large cities of the world, come here to see what American manufac turers make that they can export, and i they find the right goods will be prepared to buy them.

The Fational Export Exposition has rececred the financial support of the United States government, the state of Pennsylania, and has been otlicially recognized by the goternors and Legislatures of many sixty-t wo acres, and most of them are now
in process of erection. The main building will be a massive structure, corering eight inclu, with steel-beam skeleton, and will halls, under one roof spacious exhibitionseating restaurant, and an auditorium with a will be capacity of fire thousand. There feet of orer two hundred thousand sqnare ing. The agricultural implement manufacturers will have a special building one hundred aud sixty feet by four hondred and fifty feet in size. In this will be erhibited the latest incentions in farm impents and marm implements will be a field of twenty acres in which roadwill be a tiventy acres in which road""Thes, the National Export Exposision is being well supported by the largest manufacturers of the country, and the leaders in every line will be represented by exhibits.
"The exposition will not only attract many people from foreign countries, but also draw people from erery part of the United States. It will be rery attractive to the manufacturers of this country, for they will be able to see the latest and best of ererything that is made in the Lnited States. It will hare many features of interest for the farmer, for there will be congregated the latest in farm uachinery and agricultural implements
"The amusement feature of the exposition will be unique. In addition to the daily concerts in the auditorium by leading musical organizations of the country there will be a number of norel displays on a broad esplanade leading from the entrance to the esplanade leading from the entrance to the
grounds. This will be eighty feet wide and eight hundred feet long, and on either side will be erected quaint structures in which will be shown the life and industries, the toil and play of people from the Philippines, the Hawaiian Islands, Porto Rico, China and other countries. The Chinese village will contain four hundred and fifty inhabitants who will come directly from China to this country."

R
Revieming business failures "Bradstreet's" of July 1st says: "The intensity of competition in business life and the in creasing sharpness of the struggle for success hare furnished the theme for many rather pessimistic riews, particularly marked since the outbreak of what might be called the trust or combination mania, and predictions of a wholesale pulling down of small traders as a result of modern methods and conditions hare been freely made. The infuence upon ultimate success in business of the posses sion or lack of possessiou of what has been considered essentials of the average trader's success hare, of course, receired exposition rery frequently, and the need of increased capital, of a careful consideration of ex-
penditures, and a multitude of other less penditures, and a multitude of other less
prominent conditions, has been emphasized.
"It is particularly encouraging, therefore, and it may well be considered a special index of the widespread actirity in trade during the period under review to find that business embarrassments for the first half of 1899 make just as favorable a comparison the freceding periods as did the record of by 'Bradstreet's' apparently indicated that the first quarter of the present year wit nessed the uninimum of friction or disturbance iu general trade, inasmuch as it was shown that in that period the number of failures reported was the smallest there was any record of for seventeen years past, and the liabilities involve
"The showing for the second quarter of 1899, howerer, is almost equally encouraging in that while the inumber of failures in the second quarter this year has becn slighty larger than in some other years, the romme is any record of since $1 S 83$. Tecords of fail ures by montlis show that the failures in June were the lightest and least damaging for any month this year, and a comparison of May and June failures with the same months of recently preceding years show that this year's troubles have been unprecedentedly small, pointing to the continuance of the farorable conditions referred to to the very latter period of time as a whole, therefore, the showing is an exceptionally favorable one, pointing, in fact, to the smallest numwhile the liabilities of the failing traders are the lightest reported since 1881. Further testimony to the decline of business troubles to a minimum is found in the small percentage of assets to liabilities


One advantage that the linow everything worth knowing and Making Friends rural American people have
over the peasants of Old World nations is over the peasants of Old World nations
that from their very origin and bringing u their disposition is somewhat nomadic. They move about. They live at the colder North to-day and perhaps at the warmer South tomorrow. They try it East, and if they do not find ideal conditions and surrounding are those who stay in the same place for life The consequence is that our people see the world as no other people do. Coming in personal contact with differeut people, different conditions, differcnt soils and, different climes brings to the observing miud a wealth climes brings to the observing miud a wealth of facts of which it otherwise would have
remained in ignorance. Our moving habit, in short, has served us as a substitute for systematic school education. It has sharp ened our wits and understanding. It has enabled us, more than anything else, to cast
prejudices aside and to take a broad view prejudices aside and to take a broad vie of things generally

Man is a gregarious animal. If he strays out of one flock, so to speak, he at once tries to crowd into another. There are few they can or care to get along without companions and friends. I think that the goodwill of neighbors is a great luxury, and even if I could afford to, I would hate to do with out it. It is easy to make new acquain tances. To make friends is a far moredificul task, and not everybody has the knack to accomplish it. It is only very recently that I have learned more clearly to see through it and through all its connecting phases, and 1 believe I can aid ny friends to a full understanding of the secret. And then let
practise what we preach and believe in.

*     *         * 

Suppose you comie a stranger into a ne place. It is true the people there will be polite, courteous, even accommodating to
you. That is the character of the American you. That is the character of the American
people. And yet they are prejudiced against you all the same. So are you prejudiced against them. Everybody is prejudiced agaiust a stranger. For instance, a man might come to you offering you a really mer itorious article that you would quickly buy a higher simply because the man is a stranger to you. After having bought of him reluctantly a few times you lose your prejudice and buy freely less meritorious articles. Criticizing eyes, too, are upon the stranger. pass unnoticed among old acquaintances ar an object of comment, and possibly of ob jection, when seen in a stranger. The way of your new neighbors appear odd to you You are probably used to different ways
But don't forget that your ways appear just as odd to the neighbors as theirs do to you All this will disappear with better acquain tance. Now, however, I come to the real secret of the art of making friends, and of earning the good-will and respect of you new neighbors. Do not try to "show off of the ignoramus. Think a good deal, and say little. See everything, but do not make any comment except to yourself. If you are smart, the people will find it out without
your trying to show it. A husband cannot increase his wife's respect and love for hin by bragging of his mother's cooking. It is an indirect way of finding fault with the wife's cooking. When you try to make out that you are awfully smart, and that your
family is so nice, and your old neighbors so wonderfully good, the new neighborhood, of course, will take it as a reflection on their own smartness, ou the nicety of their families, and on their own goodness, and will resent it. I used to live where the night ingale dwells, and ahways have noticed that she hides in the depth of the bushes and wants to warble forth her most delightful melodies and trills. Tine jackass, on the hand show the jackass, on the othe hand, shows off his clumsy pranks, and sounds his offensive bray on the highway
in full daylight. Wouldn't he hide deep in in full daylight. Wouldn't he hide deep in
the forest if he could see himself as others see him?

Just imagine the results of the following plan. Come into a new ueighborhood.
Carry your head high. Nake believe you
little more besides. Tell everybody the goodness of your old neighborhood Also how wicked the people are in the new place. Brag up your children, your sisters, cousins and aunts. Tell of the good old stock you came from, aud what great things you have done and still expect to do. If that does not make sou ridiculous before the whate new neighborhood 1 do not knor What would. You may be sure, however with your neighbors otherwise, and how with your neighbors otherwise, and how
accommodating, if you follow such a course you might as well pack up your duds again and move out. It will be next to impossible to gain the good-will of that community

But try the opposite course. Say nothing, and saw wood. Go quietly about your business. Trust to the revelations of time which will soon show what stuff there is in you and your family. You may be anxious to show your real worth. It will come out in time without auy effort on your part. I know you would like to tell of your children; how quick they are to learn and what prog-
ress they make, or how well they can play ress they make, or how well they can play
the piano, or recite and sing. All these are the piano, or recite and sing. All these are
things rery near to your heart. But forbear things very near to your heart. But forbear this treasured up in silence until the neighbors themselves begin to talk about your children's accomplishments. And then say little. Be a ready listener at all times. Muster up all patience possible to hear others talk about their children. Give a word of praise where you consistently can, and think what you like. And then round off this That is treating everybody on the square That is the way to make friends, and it is better to have friends than enemies, even if
you expect no particular services from the you expect no particular services from the
former, nor have any reason to fear the latter.
A Small Hand- $\begin{aligned} & \text { In the issue of June } 15 \text { th } \\ & \text { I mentioned a hand-spras- }\end{aligned}$ sprayer I mentioned a hand-spray which can be bought in general hardware and seed stores at from fifty sents to one dollar and a half or two dollars apiece. Such a spraying device is shown in the accompanying illustration. The one I use is made of copper, and therefore more expensive, as also more durable, especially for spraying corrosive liquids, than the tin affairs costing fifty cents. It is offered by the manufacturers of spraying outfits in Lockport, N. Y. It

throws only a vapor spray, but I noticed that its spray, the receptacle being filled with white hellebore in water, was all-sufficient to make a speedy end to the worms which it had been such a job to keep off my Columbus gooseberry-bushes by applica tions of tobacco and even kerosene emulsion Use a little more hellebore in the water than usually recommended (a tablespoonful to the gallon), and apply thoroughly so that every leaf receives its share. For the few bushes, roses and shrubs that ordinary people have in their gardens, lawns, etc., this sprayer is a good thing. I use mine mostly for spraying pure kerosene or a misture of this and oil of tar on cattle and hogs, some times on horses, to drive and keep the flies off. The little twenty-five-cent tin sprayer required so much lung-power that I am very glad to be now relieved of the necessity of blowiug. The other day when I found a lot of those great lice on my hogs, I loaded up the vapor sprayer with kerosene, went into the pen and gave each hog a thorough with the hand. I have with the hand. Inave repeated the opera tion once or twice siuce, and the hogs are
not troubled with lice any more. I also use the same machine and material to keep the hen-house free from mites. One must be quite persistent in using it for the purpose. Ordinarily I prefer to spray the inside of the hen-house more freely with the knap
sack-sprayer.
T. Greiner.
T. Greiner. staud of corn. He has plowed the land twice this spriug, and plauted it twice, and now the surface is baked so hard that the ing it to break up the crust, and after all of ing it to break up the crust, and after all of
his hard work will probably succeed in securing about half a stand

He is farming land that has been farmed o death. Its owner leases it to whoeve will pay three dollars an acre rent, and eacl tenant does his utmost to wrest from every atom of fertility that it will give up. The result is what might be expected; the land is entirely devoid of humus, lifeless clods, like putty when wet and like brick when dry. To grow a half crop on such land requires ten times more hard work than properly treated and is well supplied wee properly treated and is well supplied wit humus. This shows the great disadvantages the tenant-farmer has to contend with. He must grow a crop that will sell to pay his rent. A fertilizing crop like clover, cow-
peas or sor-beans is out of the question, peas or soy-beans is out of the question,
because the landlord wants his annual rent, and he wants it from every acre he own Fery often the laudlord and his agent (usually a lawyer) know no more about fer tility or fertilizing than posts, and the skin ning, extracting process now so much in vogue will be continued until the last vestige of available fertility is removed. I feel sory for both tenant and land.

After Wheat After the wheat and oats are land is wanted cut comes ragweed. If the is customary to let the ragweed, smartwe etc., take it after harvest and fill it with seeds that will spring up with the corn and harass the husbandman not a little. If the land is intended for another crop of wheat it is plowed as soon after harvest as possible, and. allowed to lie bare until seeding-time. The practice of some of the best farmers is to plow about three inches deep as soon as possible after the wheat is off, then disk and harrow after every shower until seedingtime. This keeps the surface mellow and prevents evaporation from the subsoil, and also in a measure prevents the escape of nitrogen. Those who follow this system or plan of growing wheat after wheat two or three years in succession have learned that To
plow the land immediately after harvest, and to keep the surface loose and mellow all the time until the seed is put in. If the soil is allowed to become dry and baked after a
shower there is trouble on hand. It must be disked or harrowed, preferably the former, as soon after a rain as it will work mellow.

Nitrogen Trap Scientific farmers are learn not the best plang to follow. Nitrogen is costly element of fertility, and it will not do to allow an atom of it to escape if there any means of preventing it. These men are using a trap to prevent the escape of nitro-geu-a trap that not only preveuts the es-
cape of the nitrogen already in the soil, but adds more to it for the use of the succeeding crop. This trap is the cow-pea. As soon as the wheat or oats can be removed from the land it is disked two or three times over, or plowed about three inches deep and harrowed, and cow-peas put in with a dril corn-planter, straddling the rows, or with wheat-drill with alternate seed-hole
stopped up. The peas are up in a few day and make rapid growth and soon cover th ground. They may be pasturd cover the or turned under for fertilized in the fall spring. Try this fertilizer the following acre this season and on a half acre or an thing to do-see if the results are not more than satisfactory.

SALIENT FARM NOTES
Farmed to Death "Land runs together very hat twenty-acre field in splendid conditio and planted just before that last rain, but the surface is baked so hard that the corn cannot come up.". So said a young man who is farmiug rented land. He siys he is hav far better than those who eat a hearty breakfast of heavy food and get no more breakfast of heavy food and get no more
till uoon. If a man has a stomach like an ostrich he can fill himself up to the chin with bacon, cabbage, potatoes, etc., with impu-
nits, but the ordinary man-he who must work steadilyand think clearly-should learn to treat his stomach scientifically; to supply himself with such food as will keep him in good health and working condition. A farmer should be the healthiest man in the farme should be the healthiest man in the world He has pure air, and can have good, wholehours as he elects. Fred Grundy.

## AGRICULTURAL SOCIETIES

The first society for the promotion of ariculture was founded in 1785, in Philadel phia, with Washington and Franklin among the charter members. In 1792 a professo of agriculture was appointed for Columbia college, New York. In 1837 Congress made the first appropriation in the interests of agriculture-one thousand dollars for the collection of farm statistics. This was brought about by the disastrous crop failure of 1837. In 1849 Yale college established course of lectures in agricultural chemistry. In 1855 Michigan established a college for agricultural training. In 1857 Senator Morrill introduced his bill to establish agricultural colleges. It was retoed by President Buchanan, but practically the same bill was signed by President Lincoln, in 1862. The signed by President Lincoln, in 1862 . United first experimental station in the United
States was established by Yale college. States was established by Yale college.
Harvard soon followed with another. The Harvard soon followed with another. The state of Connecticut assumed charge of the
Yale venture, and the state of Maryland Yale venture, and the state of Maryland
opened a third station. In 1887 Cougress opened a third station. In 1887 Cougress appropriated $\$ 15,000$ aunually to each state for experiment work, and in 1890 increased the endowment of the agricultural colleges
E. P. Powell.
Fly-repeller 1 milk in a darkened stable much by flies; still, when 1 open the door to let the cow in a few huudred flies rush in atter her, or ride in on her back and legs.
The pestiferous little' black fly that came up here from 'lexas is the meanest of all. It gets in among the hair ou the sides and back of the animal, always with its head downward, and there it sticks until rubbed
oft. It is about as hard to nash as a grain of wheat, and it annoys the animal noore than all others. But I have got onto the lad at last, and he perishes miserably and in short with keroseue, let the cow into the stable and close the door, then blow a few whiffs of the kerosene vapor along her sides and villainous flies let go and tumble is a caution Then a few puffis into the air and every fly that is able tumbles through a crack to get outside as quick as possible. Before turn
ing the cow out in the morning I blow a few ing the cow out in the morning I blow a few
puffs of the kerosene vapor ou her back and sides and they don't trouble her for an hour or more. A little heifer that used to run every time I approached her now stands stil while I relieve her of her tormentors by blow ing the vapor over her sides and legs. They wild at first. Iu the stable I allow the vapor to settle, which it will do in a few minutes, before milling.

Hot-weather When hard at work in the Food Drink field on hot days I sweat fairly runs off me, aud water seems to hav little effect in quenching my intense thirst 1 have tried all sorts of drinks-cold, warm, hot, sweet and bitter-and the best of the lot is the juice of fruit, black raspberries or blackberries being best of all. A pint of the a stew-pan and set on the quare. It is take off before the fruit goes to pieces and strained, and a very little sugar added. One pint of this in one half of a gallou or one gallon of water kept as cold as possible i good, and goes farther in quenching thirst and keeping my stomach in good condition than anything I have found. Then thre or four cherry, plum or prune stones kep in the mouth while at work are of great as sistance in quenching thirst, very much better than shewing gum of any sort

In hot weather I have found it by far the best plan to eat a very light breakfast of wheatlet or steel-cut oats thoroughly cooked the previous afternoon, with bread and butter and fruit, and little, if any, meat, then have a lunch about half-past nine. I notice that those who follow this plan seem able to do more work and stand the heat nity, but the ordinary man-he who mus

## OUR FARM <br> (2)

## FARM THEORY AND PRACTICE

Forl Clover-fields.-The crop re-
ports and some travel reveal the fact that tbere is a big acreage of weedy elds for corn or potatoes next year it is unwise to let thein lie and produce a crop of weedseed. Weedr clorer has little valne as feed. and the soil needs a good sod or a good
manurial crop to prepare it for the next plow crop. The best plan is to break such land early in the summer, before the weedseeds ripen, turning the growth under for a fertilizer, and then seed to some other manurial crop that grows quickly. There is the
expense of an extra breaking of the land and the cost of seeding, but the adrantage in improrement of the soil and the destruction of weeds counterbalance all that Where crimson clover and southern field-
peas tbrive, either of these make a grand renorating crop. Each has the power of takiug nitrogen fron the air and adding it to the soil iu the same manner that clover
does this work for the farmer. July is too does this work for the farmer. July is too
late for seeding to cow-peas in tbe North, but is the best time for crimson clover. If the latter is used, the seed should be north-ern-grown. One peck of seed to the acre is the safest amount. The ground shonld be well firmed before seeding to insure moisture, and the seed should be corered to a depth of two inches. There neither of these leguminous crops do well, the best plan is to keep the ground clean until the last of August, and then seed to rye. This will make a
heavy sod for the next spring. Such catch crops as these are essential in fixed close rotations, when clover partialls fails and weeds begin to take the land that m
be used for a plow crop the next spring.

Profitable Grass-layd.-Tbere is a fair prospect for good profit from clean timothy meadows this rear. The man that fails to have all mowing-land clean makes a misis surprising that the practice of cleaning meadows of weeds sereral weeks before harreṣt is not more general. A man with a sharp serthe can clean a big area of grass-
land if it is not so foul that it should be left for meadow. If the meadow is not worth cleaning it is not worth keeping for harrest. An active man will clean two or
tbree acres of moderately weedy land in a day, using the point of the scythe to cut the weeds a few inches above tbe ground. The grass then springs above the stub, choking any branches that start, and there is an increase in both quantity and quality of the a good price the coming season in most sections.

The Sptd.-A great convenience upon a farm is a spud. As some readers may not
know tbis implement by name, I may say know tbis implement by name, I may say
that it is a steel blade set chisel-fashion into a long handle. Three sixteenths steel cut two incbes wide is about right. The blade should be four or five inches long, and may be kept sharp, and is then a handy tool for cutting out such weeds as the dock, planto be killed. Such weeds are apt to appear around farm buildings, and mowing does not kill them. A sharp spud is a most satisfac-
tory tool, and tempts one to constant warfare with all unsightly wreeds on the grounds about the house and barns.

## Nox-blightivg Potatoes.-Some rari etiex of potatoes are far less susceptible blight than others, and the quality of resist ing the attack of early blight should now he after year this blight has ruined crops in some potato-growing sections until a full sield is no longer expected. The disease has been spreading nortbward, appearing in Newl York state and Michigan. it is only half a remedy, often failing to stay the disease. Spraying is costly, and will not come into general practice for many years, if ever, though some farmers find that it pays. The important thing now is the origination of some productive variety that has alility, to resist this disease. I have faith that this work can be done. I now have a fely wari-

other varieties by their side are attacked and always resist an attack for some days, if not weeks, after some other rarieties have
succumbed to it. Among the least resistant is the Early Ohio. Among the most resis tant, I think, are those varieties that send up a single stalk from an eve and make no branches until rather late. in the season. The fact tbat this wide difference exists gives room to hope that wben originators of new rarieties begin to watch this point tbey may select some varieties that will be more resistant than any we now hare. Even if a seedling were not as productive as the best, it might be rery valuable because germ proof, and makes growers more money tban a potato that was naturally more productive but quick to blight

Does It Pay to Hoe?-Tbe use of the hand-hoe has gone rapidly out of date in ecent years. The idea is that all tillage hould be giren by horse-power. Tbe har ows, cultirators and weeders do splendid to discard the nse of the hoe in some in stances. Wben potatoes become too large for the weeder, the only way to freshen the soil in the hill by horse-power is to throw soil out of the middle into the hill. That form a slight ridge. Another cultivation ridge the ground yet unore or else a crust is le about the plants. I believe that a tboroug hand-hoeing at this time, stirring all the surface of the soil abont the plant and leve ing the ridge slightly without cutting deep, pays well. In many instances it would doubtless increase the field sufficiently to pay rery big wages to the workman. Tbe hoe has been discarded on level lands, and a retnrn to it might not seem progressive to many people, but the owner of clayey loam too often has a crust of bard soil about his plants at the last cultivation that shoul be broken, and the hand-hoe is the only implement that can do the work right and leave the land reasonably level. I beliere so strongly in the doctrine that thorough cul tivation pays that each year I find more and more work for the hoe. The man that is skilled in its use can do much profitable work with it

## the osage orange fence

In the earlier days when the farmers from Pennsyivania aud the East and the Ohio ralley began to spread ont still fnrther west o the rich prairie-lands across the Missis sippi, aiter a homestead was staked out and a lodging provided, one of the first things was to proride a permanent boundary for be used for fencing, and the areas to be inclosed were large. So the areas to be took the place of the rail or board fence Miles and miles of this hedge were planted, making tough, impervious fences, which grew evenly around the farm
Notwithstanding the statement of many farmers that they would not hare a bedge, and especially the Osage, on their places, I bare jet to see a fence which I like better, consider more ornamental, or, year in and year out, more economical. My farm but my Osage hedge, fronting tbe entire place, gires me bnt little trouble, makes an excellent fence and is a tbing of real beauty in the summer. As I wanted a tight fence, I set the plants, six years ago, five incbes apart, having thoroughly prepared and enriched a strip of ground four feet wide to of small plants much as I would a row; of onions, as many as eight or nine times season, using tbe wheel-hoe in between cult rations with the horse. The hedge is not shoulder-high and has the dimensions I pro pose to keep it. I trim it twice a year, usin machete which I brought home from Cicaragua several years ago. A corn-knife would do. I can trim one hundred yards an hour, taking the growth when it is just and tender. If left until they harden the job will be a trying one. One place in the hedge, immediately in front of the house had some trouble with. It did eouse, off right in the first place, and it was two ears before I realized what was the was two Five or six cedar-trees grew outside of the hedge on railroad land, and I noted that the hedge began to diminish as it approached in front of these trees, and that at the point imncdiatcly in front of the clump it was the poorest and weakest. The tree-roots were robbing it of the moisture required for its roots, and the extra manure I had applied did not help much. I plowed a furrow about six feet wide outside of the hedge, between it and the trees, and ran back and forth in it
sereral times, going down eighteen incbes
and cutting all the tree-roots. The effect was marked. This weak section began at once to craw up after the rest of the hedge, and now the whole hedge, haring been cut back many times since there is no appre ciable difference.
This root-cutting suggests sometbing. I have heard farmers complain that they cannot stop always to prune their hedges, not being "gentlemen" farmers, and they become neglected, and tbat after leaving them un are great bushes, they can ylant nothing thear them, as the hedge 'draws the grouud.' In such a case the first thing to do is to cut back the hêdge to where it belongs. Then with a heavy two-horse plow, and ide of the handy, run a furrow on either side of the bedge, about five feet off, to a deptb of fifteen inches, and cut all the roots.
No trouble will be experienced now in growNo trouble will be experienced now in growing crops up to the line, nor will the severe
root-praning hurt the hedge; it will only balance the top-pruning which has been necessary: GT'Y E. MItchell.

## THE STRAWBERRY SEASON OF 1899

Of some sixty new and so-called new varieties which fruited witb me this season more thau one half of them gave promise of taking a place more or less promineut among desir able sorts. Mauy of them, however, fruited for the first time, and the result is given here without comment, for it would be man festly unfair to either commend or condemn them until after further trial, particularly as the prolonged drought and the unusual hot weather at the season of ripening wrought haroc among inany varieties. Indeed, had it not beeu for a modest irrigating plant, the beginning of what is hoped will be a perfect outfit, this report could not have been made at all with any degree of fairness. The rarieties ripening late fared bet ter tban the early and midseason sorts, as tbey were on "late ground," whicb is fairly moist even in seasons of prolonged drought, and wbich is selected in order to bold off ripening as long as possible. Our soil is a


Berry-basket
light sandy loam, and wbile but few plants of many of the rarieties are under test, the cultivation is precisely the same as with areas of greater extent. The markets lave given us a fair price for good fruit attractive ly packed, probably an average of twelve cents a quart gross for those shipped, and nine cents for those sold in the local mar-kets-the rery early and the late as usual
bringing tbe best prices. These prices were bringing tbe best prices. These prices were
for good fruit packed in clean quart basfor good fruit packed in clean quart bas-
kets and put on tbe general market, and not for fancy fruit
As usual, I made an effort to get into the "select" market by shipping choice varieties, berries of uniforn size and all large, and was fairly successful in returns, quite enough so to warrant the belief that in a normal season I wonld have made considerable moner. Tbis year I made an experiment with a basket holding not quite two quarts. This basket, shown in the illustration, was made about the same depth as an ordinary quart strawberry-basket, but nearly double the length. It has a cover of light splint fastened at the back with tin binges, after the manner of the covers on grape-baskets. In these special baskets I packed the rely choicest fruit, lining tbe baskets with rose colored crape-paper, which came over the edges about an inch on all sides. Only the largest and finest berries of uniform shape and size were selected, and these were placed one by one in the baskets. This fruit was intended for the fancy city trade, and was shipped by express in a locked crate. The returns were even better than I expected, the fruit selling for thirty-five cents a basket when first-class herries not so well and attractively packed were bringing not over ten cents a quart. The basket described pints, but its odd size and unique packing, together with the fine fruit, sold it readily. I understood these baskets of fruit were quiclily retailed at fifty cents each, and I was asked to supply more, which the dry scason prevented. "They were not worth the price they sold for," you will say. True, but they were bought by poople who dic? not find it
always have tbe best. It needed but glance to show them that the berries were really fine, while the arrangement and the packing showed care and taste, which ar always appreciated by those who can afford to pay well for anything first-class. It will be understood that tbe venture was wholly an experiment, and as the bores and crates were made to order they cost many times more than the ordinary thirty-two-qual crate and baskets. Still, the margin of profit eft me a fair reward for the fruit and labor, and more than all was one more demonstration that extra fine fruit well and attractive y. packed will sell for enougb to give good returns for the labor involved. I will double my shipments in this line another year if the conditions are at all favorable.
Among the new old sorts that have been cultivated for more than two seasons found Marshall worthy, giving the really

high culture it demands for the best results The berries are of very large size, uuiform in sbape and first-class for home markets. It can be shipped and will carry well sbor distances if picked while perfectly firm and distances if picked while perfectly firm and howerer, a rariety tbat will carry long distances and stand up well, especially if it is in the least overripe

Clyde has done wonderfully well on m soil this year; the only objection I have, t the rariety is that the vines grow so ram pantly it is hard for the sun to get among them sufficiently to ripen the fruit evenly The berries are of fair size, early, of good color and flavor, and produced abundantly. This is my third season with the Clyde, and I consider it one of the varieties that has ome to stay.
Nick Ohmer has again done well on my grounds, better, iudeed, in ordinary field culture than when given bigh culture, the fruit being more regular in form, altbough it is more or less misshapen. It is one of tb firmest large berries I have grown, and in ordinary seasons would, I think, stand long distance shipping. This year it wilted some to the exce hot weathe Tbe berry is dark red, but of only fair flavor with me, though it has been described a of particularly fine flavor. Reports from oth er sections of the country speak highly of the berry, and on the whole it trould appear to be worthy of culture generally.

Seaford (see illustration) was fruited for the first time on plants a year set, and promises well, although I think it will do better on soil a little heavier than that can give it. The growth of the plant is vig orous, and the crop of deep red fruit of good size is borne carly and in abundance. Its quality is the strong point of the variety, to

my mind, and in this it is superior to anything on my grounds. It seems to be worth of extended trial
Ella fruited for the second year, but with one it is of little value, the only thing in it faror here being its earliness.
Gladys originated in Ohio, and is full of promise. The growth of the vine is vigol ous aud fruit is produced abundantly. The erries are rich, red, glossy and of good size and regular in form. I think cuough of the ariety to extend the acreage
Pride of Cumberlaud, which is shown in he illustration, is one of the most prolifi varieties I hare; too much so, in fact, for it
is inclined to run to small berries unless the ruit is thimed. It is a week or toll day earlier than Gandy, and is an unusually firm berry, which is the main thing in its favor as the size and quality are but ordinary
CONCLUDED on PaGE 7 of tilis ISSUE


M
anurin for Morsture.-At the time of this writing we are having our usual diry spell. I can remem-
bel but few seasons during which, at some time or other, we have not heard railing over the lack of moisture in the soil. Yet we go on year after year without making better preparations for supplying moisture to the soil, in the vain and foolish abundant and regular. I expect to see these periodical returns of long dry spells as long as I live. The one means of providing the during any drought of reasonable length, the means most simple and practicable, is to fill the soil with bumus. We can accomplish the object sought by applying lieavy dress-
ings of rotted or half-rotted stable manure, to be thoroughly worked into and mixed with the soil by plowing, larrowing, replowing, etc. This decaying regetable matter, as every farmer and gardener should know,
bnt does only lalf appreciate, holds water like a sponge. If we then preserre this moisture by thorougb cultivation, that is, by a soil or other mulch, we are in a fair way to success. We cau eren grow a fair crop of of rain from the time the plants have appeared above ground to that of harvesting. It has been done without rain between planting and digging. And it is not much of a trick, either. To grow a good crop of
radishes, table-beets, cabbage-plants, lettuce radishes, table-beets, cabbage-plants, lettuce
and other quick-maturing crops tre need no rain (or rather, can dispense with rain) after we have sowed the seed in fairly moist
soil, always provided that we have taken and continue to take the precautions here mentioned for the preserration of the moisture already in the soil.

We should not imagine, howerer, that we have done our duty for some years after having applied one heary coat of manure one fear. These quick-maturing crops need just as soon as I shorten the application one wish $I$ had been less saving with the manure. In short, for garden crops I find annual heavy dressings absolutely necessary. The
falling off of the crops when such applicafalling off of the crops when such applica-
tion is once omitted is at once noticeable and great. I have to keep the manuring up or suffer the consequences. The crops which require a wbole season to come to maturity do not shorr the difference to the same detomatoes, potatoes, corn, mangels, etc., on land that has had one or more manure applications in previous years. Tomatoes and drought. For the other crops named, and even for garden peas and beans, I feel that it is an unsafe procedure to omit heary dressings even a single year. Neitber do I intend to ever try to agaiu.

Mlleming for Manure.-The next best thing, or to be practised in conjunction with the other, is the plan of mulching with
coarse manure between the rows and plants in the rows. I have spoken of this a year ago as "carpeting the garden." If you want to see what effect heavy manuring by mulch ing can hare on the soil and the growth of take a look at my Columbus gooseberries at this time, and to note the abundant moisis provided even in this hot, dry spell, and also the wonderful thrift of the bushes and the enormous size of tbe berries. Some year Genera experiment station to explain to me how he succeeded in getting such a growth of rood and foliage, and sucb crops of ber-
ries on the gooseberry-bushes then growing on the station's experiment grounds. I got no particular satisfaction out of the reply I receired then. But I have now discorered the secret or key to the fullest success my
self. It is this self-same heavy mulching. put nearly a wheelbarrow-load of coal-ashes
(probably containing some wood-ashes from the kindlings) around each bush, and in the spring again put on a beary top-dressing of bedding for bings that had been used a that the whole ground is covered, and but Eer weeds have been able to conre through plant-foods out of the mulch and carried
them down into the soil, learing a clean surface to walk on. As I said, it is like walking
on a carpet. The wood growth under this on a carpet. The wood growth under this seems to be how to keep it within bounds. Severe pruning is needed all the time. But what berries! It is a real pleasure to grow
such fruit, and I feast ny eyes on the sight every day.


## BUDDING

Budding as generally used is a much sim-
The gooseberrv. bowerer, is not the only crop that thrives by mulching in this way same wonderful growth, and strawberries where the spaces between the rows and between the plants are covered deeply with mulching material of some such character as
I hare used for my gooseberries, will show a I hare used for my gooseberries, will show a
remarkable thrift of foliage, abundance of large-sized fruit, and all this in spite of the

pler operation than gratiuing. It is almost the onls method used tor propazating
peabese at the $X$ Xorth, and is commmonly empeaced to a slight extent in propagating
 is periormed when the eason is about half
gone. The plants opeatated ou should be growing so fast that the bark will readily separate from the wood, and the buds in serted should be of good size. In practice

the time for budding | peaches, apples and pears |
| :---: |
| is about the middele of | August, and for A merliana plums about the

firet of
Huggst.
The latter must be budded
early nas the stop duei early, as they stop their
grouth eanls.
$\underset{\substack{\text { gromith earle } \\ \text { The proces }}}{ }$
The process consists of
cutting off buds cutting off buds from an improred peach, for in-
stance, and inserting them under the bark of a seedlingafter first making a T-shaped cut in the stock. Fig. 1 shows
stock cut ready for th bud; Fig. 2 shows the bark with bud on it Fig. 3 shows bark of
dry weather. Raspberries and blackberries need moisture about as much as other fruits, but can perhaps get along with less plant food thau some other crops. If the soil is
already in fairly fertile condition I use old corn-stalks, weeds, spoiled hay, straw, etc. to nulch with. I have these odd corners
that are overgrown with weeds. A little work swinging the scythe will not only insprove the appearance of the neglected spots, but will also furnish us a lot of good material with which to mulch our berry-patches, and thus helps to furnish the bushes the needed moisture, and some food besides. It helps the appearance of the whole garden and of the whole premises, gives us better fruit crops and adds a great deal to our enjorment of country life, and of life generally We would all rather walk on rugs and car pets than on a liard and ragged parement

I go still further. There are other rrops which it will often, or rather usually, pay to mulch during the growing season. Early otatoes are one of them, as I have repeated y mentioned. Our usual summer drougbt comes just at the time when the tubers are forming, and at this time an especially large and constant moisture supply is needed. Why not use the coarse mauure then accu-
mulating in the barn-yard or outside the stables for this purpose? It has to be taken to the fields or garden at some time. We may as well put it out to bear interest at once.

The time it would take to cultivate the potatoes can be utilized to greater adrantage in spreading the strawy stuff all over the ground around the potato-plants so that not a bare spot is to be seen. Let the layer be thick enough to keep the weeds down. I can assure you that this will bring you the potatoes. If you have an especially choice ate kind, by all means treat it in the same that of growing potatoes under straw, as frequently practised where straw is very plentiful and not as much appreciated for bedding and manuring as it is with me.

For late cauliflowers (and perhaps late cabbages, too) I hardly know how I could manage to do without the mulch. Cauliflow ers like cool soil and plenty of soil moisture. The mulch of coarse manure fresh from the stables secures these conditions, and also helps to feed the ever-hungry plant. When the mulch is once put on we hare done nearly everything that anybody could do for the plants. There is no more hoeing no more weed-fighting, no watering. Rains will come sooner or later and furnish what the plants need. You will not often fail of getting good cauliflower-heads when you treat the plants in this manner. T. GREINER.
stock raised a little so that the bud can be slid down from above; Fig. 4 showrs tbe bud in place, and Fig. 5 shows bud
tied. The tying material may be either raphia, woolen yarn or cotton warp. If
the operation is successful the buds will have grown fast inside of two weeks. They should not start into growth until uext season, but the ties should be looked after
and be loosened if they bind too tightly, and be loosened if they bind too tightly, and when the wound is entirely healed the bands may be remored. The followiug spring the stocks sbould be cut off just above the bud. No wax is used. In cutting the buds it is necessary to take a rery thin piece of wood with the bark. Some persons pre inserting the bud, but in my experience 1 inserting the bud, but in my experience I knife is desirable. Several complete articles have appeared in these columns during the last few rears, and this is purposely made brief.

## INQUIRIES ANSWERED

## Worms on Strawberry-plants. $-W$.

 M., Mountainville, Va. If the worms eatthe leares rou will find it best to spray the the leares jou will find it best to spray the them with Paris green and flour, as for pota-to-bugs. If the white worms you refer to eat tbe roots, fou will find that they will not be troublesome if the land has been in some cultirated erop for two sears before planting just the part injured and send sample when sou can.
Please tell mikenara.-J. C. Writes fire feet high and has dark-red stem, from which smaller stems exfend. The leaves lie flat, as if on the ground, and cover a large space, but do not overlap. It has a cluster of dark-red berries later on. It is valuable for medicine.
REPLF:-It
Reple:-It is commonly known as American spikenard (Aralia raremosa). The root ha been used in medicine, but is of little ralue. ver Creek, Neb. I am not certain as to wha has caused the injury to the leares you sent. It appears to me, howerer, that ther must hare been eaten by some insect, and they look whipped in a rery hard tiat, they bad bee Whipped in a very hard wind.-I Itbink tha dinary fire-blight, which is quite severe iu the West tbis rear, owing to the rery humid condition of the air. There is practically no remedy for this disease. The best treatment is to cut off the diseased parts as soon as they appear.
Injared Pear-tree.-M. M., Rockland, Mass. I think the injury to your Clapp's pear is due to some fungous disease, but tbis
may be caused as a result of its being poorl located, as, for instance, being crowded or there being too much water at tbe root, o from anything that rould bring about conditions not eonducire to a healtbful growth. The injury that rou speak of I do not think is caused by tbe regular pear-blight, but it
may be. In any case, the best thing for you
to do is to secure plenty of good drainage
at the root, keep the soil well stirred around at the root, keep the soil well stirred around
the trees auci give plenty of air. Varieties of pears that are so sensitive in your sectiou
that they will not grow without continual that they will not grow without contimual t would be hetter for you to set out some of
he more thrifty-growing rarieties, such as the more thrifty-growing rarieties, such as
the Bartlett, B. Clairgeau or B. Anjou, rather than to fuss with this one. It is very likely,
however, that another tree of the same kind Excelsior Crab-annle-Reine Hortense Cherry-Athea.-L. B., Monett,
Mo. The Excelsior crah is of large size and n early bearer, and of fair quality to eat out of the hand for a crah, but best adapted to kitchen use.-The Reine Hortense cherry is a tree
of very haudsome, healthy, vigorous growth, of very haudsome, healthy, vigorous growth,
of moderate and regular heariug qualities. The fruit is rery large and of hrigbt clear -Tbe cultimated lind of aro aepended upon to reproduce tbemselres be from seed. It is reproduce tbemselves true cuttings made up in the fall of the year or by layers put domn in tbe spring or summer. Currants Dropping.-J. S., Park Ridge. the reason currauts have fallen from tbeir stems I have not as ret heen able to satisactorily explain. It seems to go with some
varieties much more than with others, but is more liable to injure rarieties that are crowded or tbat hare made large growth of wood
and set too mucb fruit. This year my Stewand set too mucb fruit. This year my Stewthis was, but the Versailles, Long Bunch Hol laud and Fay and some otrer varieties have perfect buuches. I think that where the hunches have plenty of room, and the plants
have a reasonable amount of pruning, they are scale on Scale on Orange-tree.-W. H. M., CaI-
ifornia. Mo. The orange-leares ifornia. Mo. The orange-leares mbich you
send are infested mith a scale-insect. There send are infested with a scale-insect. There are a large number of such insects tbat affect pecially injurious if looked after. The especially injurious if looked after. The best
treatment in your sectiou would probably be treatment in sour sectiou would probably be
to wash the leaves with strong soap-suds in Which a vers little kerosene has been put and tboroughly mixed tbrough the water. Each leaf and twig should be washed separately, using a sponge. Or if they are at the base of the leaf-stalk, an old tooth-brush is rers good to reach them with. One good cleaning will probably rid tbe plants of tbls
disease, so you will not uotice it for a long disease, so you rill not uotice it for a long
time. If on washing-days 5ou mould dip tbe time. If on mashing-days sou mould dip tbe eral times you will find it would aid rery much in keeping them healthy.
Worms on Maple.-J. C. Y., Otego. I do not know wbat worm you refer to as eat ing your maples, but if whe send me specimen in a tight box I will try to name
it for you. It is rery prohable that these insects pass their pupa state in the bark or around the base of the tree, and if a baud of hurlap were wrapped around the tree you under prohably find a good many of them watch them very carefulls sou can undoubtedly tell whether ther undergo this change in such places or in the ground under tbe tree. If you are anxious for some of the chrysalices, gather some of tbe worms about the time they are full grown and commence to be uneasy-that is, craml around a good deal-put them into a box and feed them, place a netting over the top, and you will he able to get the perfect insect in good shape. In sending specimens put them iu a tight box, preferably of metal, about the size of a penIt will miap them up tightly without food It will not hurt them any to be a few days by mail, but rou failed to give yonr state in my maing.
Insect
Insects Injuring Strawberry-plants. -D. P. S., Fairmont, Jinn. I Wish you had ing so much injury to strawberry crops in your ricinity. It seems to me that it must be one of the leaf-rollers. These are espec the troublesome when toey hast remedr is to spray tbe foliage with Paris green and water about as generally used for the potato-bug. But it is probable tbat the berries are ripening with you, and sou would hardly want to do this at this time, and in that case it is doubtful if there is any known remedy that will be satisfactory. Pyrethrum insect powder rould work very well and would be peuse, which I fear would be too much to peuse, which I fear would be too much to ing at a high price. The way to use it is to mix it with flour and let it stay mixed twenty-four bours in a tight ressel, so that pyrethrum, and tben dust it with a bellows pyrethrum, and the foliage in the erening. It is quite an easy matter to keep the insect ofr of the new heds by picking off the rolled-up leares or by using I'aris green and water botb. But for tbe old beds the best remedy is mowing and burning immediátely after the picking of hed is to and tbis is important whether the as by burning manr insects are destroyed The burning also destroys many spores of disease. I regret rery much that I cannot suggest a perfectly satisfactory remedy.


PURE BREEDS AND MANAGEMENT

FARMERS who look for something more
than the ordinary in pure breeds are
disposed disposed to manage on the theory o the result is that they feed excessively, make their fonis too fat, and do not get as many so common that they are well known, as
many farmers. who have flocks of pure-bred hirds complain that their neighbors, who
keep only scrubs, get more eggs than ther. feed so much food and compel their scruhs good birds feeds them until he makes them That every farmer should do is to nerer to attempt to secure a portion of their food by so doing and have his fowls in better condition than when he surfeits them. It is the surest way to stop egg production in the corn, for it may be noticed on erery farm just come in from the range with their
tull. Corn is very heating, aud large, fat excessive heat. More eggs will sometimes be than when the fowls are rery highly fed. cording to the breed. It is a waste of time twice as much as they can eat during the
dey. Large fowls may receive lean meat Let the scruls be improred by using pure layers treat the improved birds in the same
mauner. If a flock of scrubs and one of pure the pure-bred hens will lay more eggs than in the form of meat.
the difficulties with chicks
Inexperienced poultry-keepers are liable lecting those a month old and upward for
the younger broods. The reason of this is the birds, haring gotten so far in safety, are require the same amount of attention younger ones, whereas the birds at th
mentioned need more care than they did before or will again. Neglect at such growth. The cause is that the down, or nest
feathers, which have ellveloped the hody are being shed and the full-grown feathers are
taking their place, thus causing a constaut drain on the system. It is, in fact, a first
molt, aud there is not the same streugth to
meet it as is found in adult birds. Addi-
tional nourishment and careful feeding are
almost important to the well-being of the
chick, and undue exposure to cold or wet
will he dangerous. Of course, some hreeds
are hardier than othcrs, and get through the
stage more easily, hut the strongest need
care. In fine, open weather the feeding will
be the great point requiring attention, but
in bad weather it would he a good plan to
put the coop in the chicken-house. Young
chicks will sometines thrive well until they
are about ten days or two weeks old, and
then cease growing, hecome wcak in the legs
and gradually droop, finally dying. This may
he due to screral causcs. One is the great
drain upon the systen when the chicks are
featheriug. This is the most noticcable
among Leghorns and other fast-growing
hreeds, as compared with Bralnas, which
feather slowly. This rapid production of
feathers demands fecding four or five times
a day, and on such foods as are rich in
nitrogen ard mineral mattcr, such as milk,
meat and boncs. The chicks that feathel
slowly seldon droop from this cause. An
other cause of loss is the large head-lice,
and still another is lack of warmth during cold, damp weather, the chicks being too large to find shelter under the hen. Then chicks hare good appetites, have no bowel trouble and strive to get their food eagerly,
moving on their knees, it indicates rapid growth. Such chicks apparently have long they will soon stand up all right and make the best chicks in the lot, but at times the pullets are affected, also. When chicks ers rough and the chicks do not grow, but gradually weaken and die, and the weather s cold, it is from lack of heat at night in rheumatism, eat, but are not lively and stagger at times, being well, it is due to sulphur effects of rheumatism in damp weather principally.

INDICATIONS OF THRIFT
When starting with a flock, and in purchasing hens for layiug, particular attention
should be given to the color aud appearance red. There the comb has a dull and sickly color and a kind of flatteued appearance, no
amount of feeding and care will force the laying of eggs as long as these conditions and clean and free from scales or the smooth nce of spurs, both of which indicate that the hen has passed the laying age. The and be as purely bred as possible. The priucipal causes of failure in egg production are too old; breeding in and in, or a failure to introduce ner blood from sources entirely utside of oue's owu flock, and keeping the flock too loug in the same runs.

> THE MARKET NOT SUPPLIED

Those who begin with a few hens and gradually increase are the most successful.
If there is any husiness above others that
requires personal attention and experience
to attain success it is that of poultry-keep-
ing. The best breeds of poultry for farmers ing. The best breeds of poultry for farmers
to keep depends upon circumstances. By all to keep depends upon circumstances. By all
means keep the breed that pleases hest; then you will he likely to give them the best
of care. All breeds will lay well if properly housed and fed. There is not so much difcare given them, and one would suppose and an abundance of cereals would be able to produce its own supply of poultry and hundreds of thousands of dollars' worth imported into the United States annually. there are none of our smaller industries more the markets of our cities.

SCURFY LEGS


NOTES FROM CORRESPONDENCE


## INQUIRIES ANSWERED

Young Turkeys.-J. R. D., Altoona, Kan., bcing lame? The joints smell and the to

Reply:-The cause may be due to some 10 Egg-eating.-M. S. S., Chestertown, Md. Trites: "What should I do to prevent m Reply:-It is an acquired rice and difficult from the use of a resmlts have been obtained the floor, open at one end, so that a hen mus

## he hens to use.

Lameness.-I. M. M., Mina, Kan., writes My heus get lame, have botel disease; tur a week,. pepper, may-apple root, etc."
REPLI:-The forls may be heary and the warm weather if the heus are on a range be used on birds. as it is too Irltating.
Chiekens Dying.-D. C., Elk Grove, WIs of diarrbea. slt around, eat but little, get ficulty. They have the ruer walk milth dif

## Reply:-Probably they are vers fat, the

 warm weather affecting them. Confiue them,$\qquad$
la showu. Also examine carefully for uites an
large. licemore the males from the tlock
$\qquad$
$\qquad$
$\qquad$
$\qquad$
as everything depends ou the managenient ditlons are favorable and close attentlo

## BUY THE BEST

## If you want the best low down wagon you should uy the Electric Handy Wagon. It is the best because it is made of the best material; the best hickory axles; all other wood parts of the best seasoned white oak. The front and rear hounds stronger <br> 

## painted in red and rarnished. Extra Iength of reach and extra long standardis supplied without additional cost when requested

 additional cost when requested. This wagon isguaranteed to cary 4000 lbs.anywhere. Write
the Electric Wheel Co. Box 96 , Quiney Illinois, for their new catalogue which fully describes this,


Machines, Etc. In catalogue on page 30.


TRIAL
PACKACE FREE
If any reader, suffering from rheumatism, will write
o me, I will send them free of cost a trial Package of a simple and harmless remedy which cured me and
thousands of others, among them cases of over 40 years' standing. This is an honest remedy that you
can test before you part with your money. Address


IT'S THE TEMPER

CREAM SEPARATORS
De Laval "Alpha" and "Baby" Separators SHE SEE LAVAL SEPRRATOR OO.

| Randolph \& Canal Sts., |  |
| :---: | :---: |
| CHIGAGO | 74 Cortlandot Sthet |
| NEW YORK. |  |



## CHINESE AGRICULTURE

## [CONTINUED from first pigis]

 These practical farmers are destined to over ago, and naturally they will go first where the govermment gives thein the best chance. Already they are in the Philippines in large numbers, and they will go over by the thou-
sands now. They will be welcomed as the thing. x am a farmer living three miles from colony's best citizens, as they already are in the British colonies of Malaysia. In the
Philippines within the first half of the wentieth century will be seen the possible developments of Chinese agriculture.
 THE STRAWBERRY SEASON OF 1899
Continted from fourth page]
The fruit is of good form and color and is proble that of giture the fruit mould be larger, and in that case the ariety would be more valuable
Perfection is of medinm size, good quality and firm. It is fairly productive, but the although this is contrary to the reports of the variety in sections where heavier soil is the rule. As fruited on my grounds it has nothing to recommend it over fifty odd varities of fair value.
Jerry Rusk, which is illustrated, I consid er one of the most promising of the newer plant makes a good, vigorous growth, is free from rust, and is generally all that could be desired, while the berries are very large, beautiful shape, as the illustration will show, of quality. In season it is early to medium and is firm enough to ship long distances, This is another of the few varieties of the ut further that I will plant largely of with. requiremer tests, for it seems to meet the markets. It is oue of the varieties used in making up my shipments of fancy fruits reand its fine flavor and brilliant color made it one of the features of the shipment.

## NOTES FROM CORRESPONDENCE

From OklaHoma.-I think this is the best phace in the Cnited states for a poor person to get a start. I monld prefer the poorest up in the winter all that he raises in the rers little mud. This is the finest place for poultry I ever sam. My peach-trees of three vier sod and raise thonsands of melons. old. We raise all kinds of graius and reg we are. Onr market is not good at times, a but that will be remedied before long. Have had fine rains, and our crop prospects are
good. A. L. Flosd, Oklahoma.
From arkansas.-The business hittle citr of Mamwoth Spring takes lts name from one of the largest springs in the United States big hill and makes quite a large but not navigable river. It furnishes fine water-power; there is a large cotton-gin factory, flouringhare plenty of good. rich farming-land and klnds of graiu. This is also a good frult
four to ten mouthis sclool. Teacters, gener. month. Land is cheap. One can get $\$ 40$ a from $\$ 5$ to $\$ 15$ an acre. There is some land that is too longh for farming that would glow good fruit that could be bollght for
$\$ 2$ or $\$ 3$ an acre. We have good, cold spring$\$ 2$ or $\$ 3$ an acre. We have good, cold spring-

## WALTHAM WATCHES

The best and most reliable timekeepers made in this country or in any other. The "Riverside" (rameinara) movement is jeweled throughout with rubies and sapphives.

## HAVE YOU HAY TO SELL? Hint He fist Southwick Press <br>  



# BUY YOUR FERTILIZERS DIRECT! 



## Agents Wanted

For the New Revised and Enlarged 1899 Peerless Atlas of the World and Pictorial Gazetteer of All Lands. PRICE VERY LOW.
 PHILIPPINE EVENTS

FREE DISTRIBUTION OF 100,000 BOTTLES WORKING MIRACLES EVERYWHERE

Agents at Work Reaping a Harvest-\$7 to \$12 a Day Easily Made-If You Want Big Money Write Us Now
The free distribution of Dr. Swift's Rheumatic | sulted many physicians, but none of them have and Gout Cure is workiug wonders, and grateful testimony from people who have suffered for years
without relief until cured by the famous physicwithout relier until cured by the famo
ian's great specific, pours in constantly Not four cases in a hundred can withstand the READ
READ OF DR. SWIFT'S MANY MIRACLES Mr. G. H. E. Barber, of the Central Station, Buffalo, N. Y., says
"In Scotland, two years ago, I was first taken
with sciatica in my limbs and I suffered untold agony. It kept growing worse, and I could neither sleep at ngot know how many kinds of both
have taken Id no
foreign and American medicines and have conever given me any relief. Two months ago I was old of the miracles of Dr. Swift's Rheumatic and Gout Cure, and in a week was free of all pains.
In two weks more I was cured. Not a pain or aclue has since re-appeared. I sleep elegantly,
better than I did before the affliction came. I ank heave This is but a sample of the countless cures on
record. If yon will write us asking for names of people near you who have been cured we will
send them-will tell you what your neighbors say. send them-will tell you what your neighbors say.
or send for one of the trial bottles, enclosing 10 cents to prepay cost, and we will mail promptly.
Address Dr. Swift. Swift Building, New York. If you want to make money faster than you ever
have in your life, be sure and write us, and we have in your life, be sure and write us, and w
will tell you how easily it is done.



## 

 poured in sufficient quantities into all ant-hill will a partial remeds, however. and perhaps
dangerous to the plant close hy. The one sure way of getting rid of the ants is as follows: Get
some bisnlphid of carbon (a bad-smelling. inflammahle substance). Nake a hole with a stick into
the center of the ant-hill, pour a tahlespoonful or more of the drug into the bole, and fill it up with rolatile and would quickly eraporate. The deadly finmes will diffuse all throug colony and kill nearly all of them. London Purple.-I. S. D., Amrora, Illinois tion London purple in yonr article on insecticides, etc., on page 3 of the June 10th issue. I hare used
it about twenty years; find it costs less than one third as mnch as Paris green, is easier to keep in detected on the foliage." case woulu, be to trust the hridge that has carried when an article is found to he perfectly satisfac tory? Our frieud, however, must he especially
fortnuate in getting a supply that is uniform in quality. It is nearly twenty years now that I
have not nsed London purple. When I did use it that long ago I found that the chemical gave good results one year and poor ones another. Some
samples used to scorch the foliage hadly, even if found with it was its varring strength and composition. Possibly if applied with lime as we I am msing arsenite of lime whith is orahle results,
 -J. T. C., Bay City, Nich., and otbers. We re-So-called Blackles.-J. E. Mr., Princeville case of so-called blackleg, and your case again
confirms the rather frequent occurrence of that confirms the rather frequelt occurrence of that old), corroborates my experience and often re-
peated observation, and refntes the statement the second volume of their "Pathologie aud calves less than six months, and native(?) cattle
more tban four years old are never attacked by the disease. They, however, admit that this crro-
heons statement has heen copied from Arloing. ion of so-called blackleg (a successiful treatment may he looked upon as out of the question) pl
consult FABMA AND Fireside of April 15th.
"Grubs" in the Head of shecp-A Mard-
minding Heifer.-H. W., Eau Galle, Wis.
$\qquad$

$\qquad$ovis. The prevention consists in kecping the
neh places at which the flies are swarmiug, hut
surrounded by hedges, scrubs or trees, hecause
hese are the favorite swarming-places. Where
endeavor to prevent the fies from depositing their
plotting tar on thelu (the horders). - The
ande easier by very vigorons milking. Anyther instruments will not only result in failure,

## VETERINARY

## answers will be given tbroush these columns free of and charge. Where an immediate replly by nail is desire

Periodical ophinhalmin.-C. M. F., Essex,
Mo. Wbat you describe is eridently a plain case invariably terminates with the destriction of tbe
slight and almost imperceptible or more serere morbid changes in the aftected ege until the eye sight is lost. Consult answers uude
ing in recent numbers of this paper.
Charlier's Method of Spaying Cows. J. Y. S.. Catlin. Wask. In Charlier's method of
spaying cows the whole operation is performed on the standing auimal through the ragina, and the external tegunents. It is well known to every well-informed reterinarian, requires specia
u every modern work on surgical operations, Although the operation is not at all difficult,
will not advise any one to undertake it, even with a book of instructions at bis ellow, unless be i thorougbly familiar with the topographic anatomy
of the parts in question, is a skilful operator, and has small hands aud nimble fingers.
Warts on a Horse.-L. S. B., Arkadelphia appear in time without any treatment, especially if on a young animal, provided they are neithe wounded nor irritated. If, bowever, one desires to get rid of them hefore they are ready to go
such flat warts are easily remored by a few applisuch flat warts are easily remored by a few applications of pure hest made in the following These applications a small piece of surgeon's sponge to the end of a stick of convenient length, then ponr some pure nitric acid into a salt-mouthed rial, dip the sponge into the acid, and then, as soon as no more will drop off, touch the wart, but nothing else. with the sponge. Repeat this every minute or two down to a little less than half its former thick
ness. If in a few dass it shonld appear that on or another of the warts does not continue to shrink and to disappear, it may have to be touched again a few times with the nitric acid i the same way as

Pnerperal Paralysis.-E. P. L.. Armstrong Ind. What yon describe is not at all a new dis ease, hut an infections disease of quite frequent cows are kept." As a rule it only attacks good milkers when in a good or rery good condition a Being infections, the disease naturally is of more frequent occurrence in some districts than in others, and is apt to increase in frequency wherever it once has gained a good foothold, and
where at the same time large numbers of good dairy-cows are kept. As a rule the disease will
he prevented. first, if the premises-stable, for iustance, in which a case of puerperal paralysis has occurred-are thorongbly cleaned and disinfected; secondly, if cows known to he good milk-
ers and in good flesh are kept on a light diet the ers and in good flesh are kept on a light diet the
last six weeks hefore calving and the first week or two after calving; thirdly, if the cows are kept in perfectly clean quarters during the time from a week hefore to a week after calsing; and fourthly milked out as soon as the new-horn calf has consumed (sucked ont) the first milk (colostrum) If tuese precautions have been taken, and ye inject into the uterus, as soon as the cow ha cleaned, a quart of a milk-warm solntion of corrosive sublimate in water of the strength of
one part of the former to fifteen hundred parts of the latter. If, notwithstanding, the first symp toms of the disease shonld make tbeir appear occurrence), I advise to call at once on a ompetent veterinarian.
Chronic Metritis.-M. A. S., Akeley, Minn What you describe appears to he a case of chronic metritis, or inflammation of the uterus. Ionr
mare should not have been put to hard work after she had her colt, especially as she was not well she had her colt, especially as she was not well
and showed symptoms of disease. As it is now I am afraid that any treatment will he too late. I from and kinds of work, keep her on food that is mutritious and easy of digestion, and irrigate be vagina and uterus, first with a gallon or more of
warm water of a temperature of ninety-eight to one bundred degrees of Fahrenbert for the purpo of washing away and remoring all the pus, ex-
ndates, etc., and then twice a daly with a mild antiseptic, say with a one to two per cent solution
of creolin in warm walter of the same temperature as given above. The irrigations are hest made in
the following way: Take a commou wooden hucket, snch a one as can be hought in a store for twenty cents; then bore a allow hole in the inscrtion of an end of glass tuhe four to five inches an inch in diameter. Instead of a wooden hucket jou may nse a tin bucket into the hottom of which inches long, and with a clear opening at the lower end flush with the npper surface of the bottom o the bucket, of about one half inch; then take a
rubher tube five to six feet long and al clear opening of ahout five sixtecnths of an incli, introdnes
$\qquad$
$\qquad$
$\qquad$ and then pour in the fluid which yon have reat weight.

FARQUHAR RAKE SEPARATOR

Farquhar Vibrator Separator


Farquhar Celebrated Ajax Engine


Pennsylvania Traction Engine


Send for Illustrated Catalog. A. B. FARQUHAR COMPANY, Ltd., YORK, PA

WANTED LADY AGENTS and sidiol


# Churning Made Easy 

DAIRY THERMOMETER
Cream becomes of sufficien ripeness for churning after it has stood twenty.four hours at $60^{\circ}$. The temperature for cream at churning is $60^{\circ}$ to $62^{\circ}$ in warm and $62^{\circ}$ to $64^{\circ}$ in cold weather.

This dairy thermometer will pay for itself in a single churn ing. It saves time, labor and temper. It stops guesswork making churning an easy task and good butter a certainty.

The illustration opposite is a reduced but exact picture of the Glass Floating Dairy Ther mometer. It is $8_{4}^{3}$ inches long On the inside of the air-tigh tube is the scale with the de grees marked in

If not broken by accident the thermometer will last a lifetime We guarantee it to arrive safely and to give entire satisfaction o money refunded. Full informa tion on temperature of cream and valuable hints on butter making sent with thermometer 1
We purchase them at factory prices and furnish them with out profit-it is the clubs and subscriptions that we want-

## Free <br> We give it FREE for a club of TWO yearly subscribers to the Ferm and Fireside.

We will send the Farm and Fireside one year and this 50c.

NC. Kent she wals seem-
iugly in one of her iugly in one of her
abstract and passive moods; not a mood full of motiou and forceful
streugth, but the reverse, for she produced
a creature who, in his tifteenth year, had desel-
ized bor with a spindle oped into an undersized boy with a spindle
body and a big round head which set, bulging
and like a knoh, orer an area of thin-skinned and like a knoh, orer an area of thin-skinned
face, and whose manner was as taciturn and quiescent as her own most reposeful caim. face of Tracy's other. perhaps, than its absence or expression and lack of animation; which clustered where the skin pinched into a little ridge of nose so small that it seemed ever in danger of some subcutaneons dissolu-
tion that would leave nothing intervening between hls broad incision of a mouth and the two hlue eyes through which his meditative soul looked dreamily out under that projecting roof-like brow.
been for years a pattern-maker at an ironfoundry in the neighborhood of which the family lived. He was a small, quiet man, ingenious, for hls work required thought, but careless of his family and his domestic atfairs,
who, when his hoy was an infant, had Who, when his hoy was an infant, had
given so little consideration to his appearance and presence that when his wife sought conference with him in the matter of hestowing posed "trace" as the cognomen, that word a pastehoard patteru which he was at that moment making, Mrs. Kent modified the that the lad acquired his name
Yery different, however, in appearauce and
disposition was Mrs. Kent. She was a large, disposition was Mrs. Kent. She was a large. stout woman, quick of speech and temper, as
alert of the nimble penny as her spouse was unappreciative of the felicitles of its possessign and who had permitted thls quality to
enlarge lnto the petty vices of stlnginess and arariciousness.
Poor Tracy! He had a hard time for a lad against his father's neglect and his mother's misusage, which, as he grew older, dereloped into a habit of almost persecution. There wreatment of her son, for she verlly believed
treat the boy to be absolutely worthless. Stupid
she knew he was; and lazy-she had been too long familiar with his indisposition to activity In the business of house chores to allow that tendency of his to go by ony other name.
Besides all this, he was a trifler, and interested himself in nothing so much as to play witb bugs and beetles, stick them on pins, envelopes, until his collection would accumusight draw the attention "nasty things", At good dame would utter some epithet of horror and disgust and glve the gathering a mighty dirt whith her broom whlch would dispersion and loss, to the incomparable though smothered anguish of the boy.
But Tracy Was not permitted to indulge
his fondness for entomology to the absorption of the greater part of his energies, for thes were employed in serving a dry-goods estabishment in the heart of the city, where he
earned three dollars a week as a bundle-carrier. He had heen at thls later business in all about tive years-ever since his tenth yeal
-hringing home to his mother everry Saturday night flrst a dollar. then fifty ceuts additionyear, until his adraūce in wages had reached the magnitude of total as above stated. Tracy's father occasionally grumbled that "That hoy ought to be kept in school instead
of packin' hundles about the streets," but Mrs. Keut would reply that the "best schoolwhere he'd learn himself how $t$ ' make livin';" that she "didn't believe in stuffin as shows no more application fer it than Trace.
The
had more regard for the thitle Mrs. Kent Which the boy regularly each week placedinto hor lap thau she held for any particular riews
concerng the uost advisable methods of his forward to the time when, in due course nromotion. Tracy would become a clerk in
the great store of Inurein \& Co, with rreased to the considerable portiou of nine dollars a week.
What Tracy thought ahout his future no
one knew; indeed, no one cared. He moved

GEN Nature created Tral about his :Hfairs in a quiet, regular, unohtru-
about his affairs in a quift, regular, unohtri by the floor-walker at the store, under whost jurisdiction in working hours he existed, as a steady, reticent, though not a dull hoy, Who
was fairly reliable, but whose labit was to ahstracted to ever progress far in the liue of husiness.
The riew entertained by the floor-walker might have becn seconded by almost any one
who had observed Tracy ahout eight o clock Who had observed Tracy ahout eight oclock
one April morulng with a hig bundeunder his one April morulng with a hig bundle under his the husiness center of sau Francisco, in dircction of the whares and shipping, el grossed in reading a pamphlet of some sort a
he almost staggered ou. It was au entomo logical report of the state Board of Horticulture which had just reached him at the store board. at which place his name was know as the forwarder of numerous specincas inrariahly accompanied by inquiry as to what
they were. "with as full perticklers ahout them as you can give."
These specimens wer
These specimens were usuaily very ordinary and familiar individuals of their respectiv families, which conveyed to the state ento mologist the idea that the sender of them was a person poorly versed in tbe science, hut the
inquiries were always politely and fully an inquiries were always politely and fully an who had come to regard the state institution, and particuiarly the entom
As Tracy stumhled along with his hook and hundle, the street on which be traveled opened upon a wide cross-street, at the far side of which were the hroad wharves run ning down hetween the big sail-ships, thei bows and long jib-hooms thrust high in the the largest of all, lay hroadside to the quay, and as Tracy approached this from abaft read the white letters across her stern, "Imperator, New South Wales."
"This is the ship," thought the boy, and selzed the rope of the gang-plank and made his way ahoard finding no one and made ventured hack in the cabin, where he met cheery-faced stout man, who slgned the boy receipt as captain, and who, as he took the bundle, remarked, "Yes, those are my wife's dress patterns," and tossed the lad a silv quarter as he was about to bow his adieus. Passing from the cabln to the main deck on his route of exit, Tracy found himself among a number of tall potted plants wbich were setting upon the deck in the strong sun shine of the early spring day. The boy bug instinct prompted him to pause and amine the plants for any of those objects of his odd propensity, and strong was the thrill stalks and leaves of most of the bushes to Lave adhering to them little dots of red pods, like ruby settings, which, when he removed tbem from their positions and pressed them in his fingers, yielded a tiny moisture o slime. Some of the things, too, appeared to be hatching out, as a minute light-jellow aphis was seen under some of the little nipples, and they were obserred to he moving ahout. Another most interesting thing connected with this display was the presence of a tiny jet black hug which gnawed holes in the horny crust of the mother-dot through which it
inserted its devouring proboscis, and which rery roraciously ate those tender aphides raght crawling up the back of the plant was disturbed it rould spread its shell-like wings and fly a way.
Absorbed iu these interesting phenomena,
Tracy watched these strange things closely through his little pocket-leus, undisturbed by any comer. An hour passed, two hours, three hours, he was still watching: a part of the time lying upon his stomach on the deek, a coiony of both kinds of bugs in front of him. again poring over the plants watching the life in its native habitat.
from the galley aft to the cabin, and accosted
"Where did these plants come from?" asked Tracy.
"From Australla," replied the steward, with a grin.
"Are you going to land them here?" asked
"No," was the reply; "they're flowers. They
belong to the captain's wiff. They've beell in
the cablu, and I've brought them out here
clean them off; the $\mathrm{s}^{\prime}$ ve got full of bugs."
"I see they hare," remarked T

## "The plants?"

The man looked astonished, and laughed. "Course," he replied; "take all you want.
"Oh, I like to fook at them," replied the boy.
"Course, take 'run all. I wish yom wonld
take 'alll all; it'd save me th' job of cleaning them off,"
"Can I have one or two of the leaves, too", asked Tracy.
"Well, now, 1 don't think the madam'd llke
you to pull off th: leares; there's so few good leaves on "cin what ain't splotched over with hem things,", returnod the man
"II don't want gool leares." satid Tracs. "I
want them what's splotehed; splotehed all The mau again looked surprised and pulled off several of the filthiest, which the boy re-
ceived with munch ixpressed pieasure, and gathering a quantity of the hlack beetles in a and hastened alway.
Straight to the post-otlice Tracy then went. and serawling something with a lead-penci uated the letter and the specimens to the
state entomologist, using a large share of his quarter to pay the postage

## Then Tracy turned his

It was one o'clock. For the first time h realized the honss which had lapsed since
he set out upon his journey. Frightened and did not slackeu until, breathless and ex "Did you delirer the sore
"Did you deliver those goods?" asked thi discerned Tracy as he sought to skulk out among the hoys in waiting.

## "Ies, sir," was the repl.

Tracy handed him the captain's signature. "Now, you go to the office and get your time and get out of this store; and don't you come "Yack here any more," said the floor-walker o'clock this moruing.
Dazed as though struck a sudden stunnius blow the hoy, nearly hlinded, did as he was directed; and in an hour after his mother, the
money in her purse, was nervously and in money in her purse, was nervously and in the Mulrein store. She was excited and cross scoldiug and threatening the while, and she that had caused Tracy to lose his position.
The report she received there did not en large her esteem for her son. When she threatened to "whip him" if she should ere catch him "lookin' at another one of those dirty bugs ag'in." She admonished him that
in such event also she wouid "drive him out in such event also she would "drive him out
of the house," and he would have to "git his of the house," and he would have to "git hi
living where he could;" and so on at great length the exasperated lady emptied he hrands in pockets, hls big head tilted toward the floor and his hlue eyes dripping tears.
the floor and his hlue eyes dripping tears.
When this first explosiou of the maternal fury had subsided Tracy was sent forthwith back to the city's ceuter to look for employ
ment. He was not destined to early succes in this, however, for though he very diligent ly canvassed the business houses, he met want rowing lad would at night return to his home to be taunted by the abuse of his mother un til his taciturn father would interpose in behalf of peace.
"I was looking for number nine'hundred and sixty-three," remarked a gentleman upou glossy plug hat, as he held his eye-glasses to glossy plug hat, as he held his eye-glasses to
his eyes and gazed on tbe numbers above the doors.
"This is nine sixty-three," returued Mrs. the front steps.
"Nine sixty-three Bonsall street?" queried tbe gentleman, turning his gla
paper which he held in his hand.
"This is the place, sir," replied the lady.
"Well, I was looking for Mr. Tracy Keut
is there a gentleman here by that name?
"That's my son," replied the womau, as
tonished that any one so important in appear tonished that any one so important in appear
ance as her oquestioner should be makin inquiries for Tracy.
th, well, then I'm all right," declared the stranger. "Is be
turned the lady, curiously pausing with her hroom in front of her. "bu
I'm his mother, and l'd like to know what you want with him." " if Well, now, perhaps 1 could explain better the caller, whereupon Mrs. Kent invited him to a seat, in the parlor while she went to call
"Are you the young mau who has been
sending entomoiogical specimens to the state sending entomological specimens to the stat bureau?', asked the visitor of the frightened and abashed youth who had become seated
hefore him. In
was.

And did you send some specimens of scale and its parasite to the hureau about thre Tracy again nodded and whispered, "Yes,
"Well, I am Professor Ashley, of the univer sity here, and Professor Crawley, of the State
Board of Horticulture, has sent me a letter in wbleb he states-weil, I'ii read It.'

##  specinens accompanied by inquirles to thime would indicate him to be such. Ahout thre Wecks ago he forwarded to this bureau a number of red scale of the oramge (Aonidla urantii), which are now so prever umber of red scale of the orange (Aonidla aurantii), which are now so prevalent in the orchards of this state as to have causel  industry. Aecompanying the scale sent hy Mr. Kent were a muler of back betes which I take to befong to the Rhizohins fandestructive parasite on this scale ever ye discovered. We have tried it very thoroughl here and find there ly nothing which can he compared to its ravages upon thls scale cept those of the Yedalia cardinalis: upon the ucerya purchasi. Mr. Keut sent us is sufficlent number of the new beetle to stock the lab- oratory, mad we placed a colony of them in a badly infected orchard two weel hose trees. The is notle a live sossesses the upon the theat qualities of rapid propagation and broad dis over the orchard and deposit their to tree Yon will muderstand from what this littl You will minderstand from what this little beetle has alrady accomplished that the state hoard estecm the discovery to be a highly valuahle one and of immense impor state. The hoard las, therefore, at its last meeting, roted Mr. Iient the sum of fire hundred dollars for his services, and on my own behalf I wouid like to inquire into the pursuiug his entomological studies under as wishes to continue them, I thlnk I can ar- range it so his education may be continued range it so his education may be continued withont further expense to himself. <br> Yours very respectfulis, Wetharford Crawney, State Entomologist.

When Professor Ashley had completed his ontaiued over to Tracy, who received it, sit ing dazed and speechless upon his chair. Mrs. Kent was also speechless for a moment, but she soon recovered her volce asd
broke into a large numher of questions, as a result of which Professor Ashley was forced o relate the whole matter again in detail. When, however, the full purport of the entlire matter grew upou the lady she he-
came exceedingly loquacious. In her excame exceedingly loquacious. In her exquisite cxcitement there seemed to be no denly recognizing astonishing merit in her son, her mind was drawn at once to a contemplation of the sources from which he had raws his semove on her mothers side had been a professor in a university; that her father's brother had writteu a hook and edted a newspaper, and that some other kinsman, whose identity was blurred iu her mind, had invented something and had it patented. Throughout all this garrulity little Tracy sat silent, his hands in his pockets; but when Professor Ashley rose to leave, aud told the lad to come to the university on the morrow
and be would send him to the capital to Proand he would send him to the capital to Proessor Crawley, the poor boy's eves dropped ears whib he wind anay wis Tracy gare his mother the check, but for his owu speuding-mouey. The good lads, too, expended much of the amount remaining to her in fitting out ber son with new clothing, so that with trunk and valise and tbe consent of both parents, Tracy, on the following day, was given railroad tickets, and some hours after he was the guest of Professor
Crawley, who became his friend and patron

An oil-painting of Professor Kent now occupies a promineut position in the meetingthe professor himself is at work in Australian lelds in search of beneficial insects destructive of the pests of horticulture. The redscale parasite he so auspiciously aiscorered of Rhizobius Kentii, in honor of its flnder, of thizoblus little beetle has long since the state ofthe shas long since Kent is recognized as a great genius in entomology, its most enthusiastic and original investigator, who has yet appeared in tbe West. He continues liberally. to support his parents. His wother never tires talking among. the neighbors of the greatness of her
son, and how his unusual talents were early perceived by tions she invariahls; held of hlm.

## MUST HAVE THE COUNTERSIGN

While visiting one of the camps during his chanced to be strolling about unattended and sought to pass a certain line which was an sought to pass a certain line which was papromptly stopped him and demanded the countersign.
"I don't know the countersign," said Mr. "I don'
"Then you don't pass," said the soldier.
"But," said Mr. Mckinley, "I am the Pres dent of the United States."
"I don't kuow about that," replied the imthe countersign you couldn't get by here, even the countersign you couldn't get by here,
if you were Dewey himself."-Argonaut.

WHEN THE COWS COME HOME "Clink. clink, eliuk-elink, a clinkety-clink"-
Through the ragsed brusth of the pasture path, Through the ragyed brush of the pasture path,
A nd the "old boss" stops at the brook to drink, And the "old boss" stops at the brook to dri With hoofs suuk deep in the brook's black loam, And Inuzzle deep in the lazy stream, She waits for the laysard herd to come. With ears that droop and eyes that dream.
Her sleek sides bulge with contentedness, Her stens sues ulige with an ovectines And her uders drip wth an overniow, That hlotches with white the water-cr.
That sags in the eurrent, to and fro.
The eddies whir where ber long tail fings Ins tufted end with a listless toss,
Aud the gurgliug water swings and sings Like whirling wiugs in the brookside uloss. As the warer clears of its muldy riie
And the "old looss" drimks, with nostris fared, The dusk, slow stealius, nille ou mille, Cirows uark where the deel) wnods stat
Aud out of the twillght's hazy height, And out of the twillght's hazy height,
Where the dog-star loiters, white aud dii, A drifting swallow pijes good-night.
Then, drowsilys. with a soul-deep breath,
The "old boss" raises her head and slyb The "old boss" ralises her head aud silihs,
And bright as a s sword froun its suarding shea And bright as as sword froun its suarding
The subser gleauns tur ter glowing eyes.
It turns the beell at her throat to golld, It turns the bell at her throat to golld, And the telltale teaves of the e ear grown old
Turn pale in the pools stiere they He afloat. And the telitale teares of the reare
TTunn pale fin the pouls where the
Out of the silence, slurill and highl,

 Only the call of the corr-that's all It seems that I heard my childhood eallAnd the dusk is here and ny eyes are wet.

- R. C. R., in Chicago Tiuses-Herald


## SAM:S GRANDMOTHER

11Dear fellore, I am really
glad to see you'" It wis glad to see you!" It was
a bandsome youg man Who spoke the words to another, who had just
leaped Iightly frou the train at a neat country
village not a thousind miles from-well, uo matter where. "It does
me good to see you, dear" half think rou wouid come." old bor. I didn't half thatighted to see me
"Iou cau't be more deligh Why didu't sou
than I an to be here, Sam. When I thiuk I rould come? I wrote you I would." •Oh, yes; hut fancy what
Where's your luggage, Jack ?'
Where's your luggage, Jack?"
"Right here. A hig telescope and my guncase; you said you had some good shooting about thes woods.
"Yes, we lave that! Come, huudle the traps right into the buggs, and we'll be off. I dare
say Jime has had supper waiting this half say .".

Cp you go, then." Jack Cameron tossed his thlugs into the back of the low buggy,
took a seat heside sam. who already sat holding his liues, and they were of down the
smooth road to Toodside, the proty place two miles from town where Sanu Dermott lived with his old-maid sister, siuce the death
of thelr father left them the owuers of laud of thelr father left them the owuers of laud
and properts.
"Explaiu yourself, old man," said Jack, "Explaiu yourself, old man," said Jack,
turuing to his frleud, as they bowled along. turuing to his frleud, as they not come? "Oh, you Were spending your racation at
your brother Tomis, and they had a lot of pretty girls there, and so-"
"Just stop rlght uow, Sam; that is the ldentleal reasou I ran away:"
"What, from the girls?
"Exactly. Tom's wife is a regular little match-maker, ats you know. She had those
girls out partly with that rery ldea-thinks it is tlme I was settled, and all that, you see.
 tilking as if butter wouldn't melt in thei
unouths-ah, bah! It makes me sick now:
Won't rou ever bellere I was golng to stay Lon't you ever belleve I was golng to stay
there, when I could be out here with you aud Miss Whme-not much:
san threw back bls
 "Mighty glad we are to get you on any
terms, Jitk, lidd; but aren't sou a trifle hard
on the rnds" They are not ill llke that."
 Whole hasiness. Havent
for me hure, have you? I'll go straight back
if you hase,"
 (xaept slster Jf.inlmal and her cook and house-
math, hor very miany in the near uelghbor-
hood.
 did get a lether from our respected glame
manaa saymaz she might drop lu ou us thls
wedk. Nobody "lse, I assure you."
"Drive on, thell! Wre will let the good
grandmima come if she wints to. She won't grindmima come if she wants to. She won'
luterfere whith onr sboting and hilhng. In,
coutent to stuy as long as rou'll let mee sam., luterfere whith onr sbooting and thihng. I'in
coutent to stay as long is you'll let me, sam."
in a hurry, tell you that: Get up. Dan! Show Sam , Trote they were expecting frow th sour heels to onr frieud, can't you: He's a
little daudy, Jack! Cost me a cool two hunlittle daudy, Jack: Cost me a cool trro hundred, au
auy day.
The girls Were quite forgotten in Sam's
pet pons, and hefore ther reacberl thoaldide pet pony, and hefore tbes reacbed Thoodsld Jack's face had entirely lost its thred look
of disgust with the world iu geueral. Miss of disgust with the world iu geueral. Miss
Jemima or Mime. as she was usually called Jemima or Mime, as she was usually called
was standuy on the front reranda to welcome them aud bid them hasten to get ready io supper, or her uice hot rolls would he spoiled supper, or her uice hot rolls would he spoiled
They were soon seated at her hospitahle board, and Jack did full justice uot only to the rolls, hut the friagrant cotiee, rich cream, fresh holue-cured ham and eggs, and all the other dainty dishes in which Miss Mime's
heart deligited. After supper ther paid a heart deligited. After supper ther paid a
visit to the stables before dark, and laid plans Hisit to the stables before dark, and laid plans
for a drive to Flat laok on a fisbing trip next day. Two or three similar days flen rapidly hy. Jack declariug he would not ex chauge the good tinnes he ras having with Sam for all the girls iu the world. Four dar:
after he came San was ohllged to go to neighboriug town on a hit of lam husiness he had to be a-witness in a lamd suit for he had to be a- witness in a land suit for through a dull dar in a country court, inteud. ed to spend the time hunting iu the woods around the farm.
While tbey sat at breakfast, or rather as was handed to Sam, which he hastils read, and gave an exclamation of rexation.
"Now, hang it all!" said he. "Iree got to go on this troublesome case, and here's a mes
sage from grandmother-she will he at Hart ville this afternoon, and wants me to come over ind meet her there.
"Ob, is gramdmother coming to-day?", asked Winne, stom
the Kit chen.
"So this says: and what to do I don't know. uuless you will go over, STime? ?"
"Can't I go?" put iu Jack. "I am at the
service of the reuerable lady for anr lengt service of the reuerable lady for any length
of tiuse, and of course as she is old, and uot apt to be very strong. she must not be left alone at a strange place. I'll go for you, Sam, with pleasure.
Saul had thrued to Jack with a queer ex pression on his fiace, aud Miss Mime hegai
"Tr hat? Grandmother? Oh, she's-"
But Sam hastily stepped up to her, sai something in a low tone, aud turned to his somethi
friend.
"The
"The rery thing, Jack! I do wish rou and lould go. lon can drive Dan to the buggs, and 1'll take old Cob to the road-cart
"All right; I'll go. How shall I kuow the dear old lady? Can you describe her, as she Will uot know me, of course.
Sam had his back turned and his roice
sounded odd as be replied. ounded odd as he replied:
OOh, the statiou-agent
"Oh, the statiou-agent at Hartville knows her. Dhe often comes that way. He will
show her to you. Be sure to take good care of her, Jack. Ha! ha!
"To he sure I will. What are you laughing at, sam?"
"Oh, ouly an idea that struck me-some thing about Donoran's case. Good-by, old bor. I'll be at home as early as possible.
Dou't forget to uleet Grandmother Dermott. Dou't forget to uleet Grandmother Dermott.
Good-br. Ha! ha! ha?", Sam Tent out leaving Jack wondering what lickled him so; but as he was not familia rith the Donovau case, of course it migh be a rery funny oue
At three o clock that afternoon Jack drove p to the little dingy railroad station at Har He drew ont his watch, and glancing pos He drew
observed:
$\cdots$ Not much time to spare! Train's due now if 'Sam was right. Ah, there it comes way! If only one old lady gets off, I shall know it is Sam's grandmother without auy
introduction. I'd better be near; the dear old sonl may need help, to get off,"
Jack sallautly drew very close to the train as it stopped, and stood waiting for his pas. with babies in their arms, and fat fatnred woman, nobody else. except a slender girl a a stynls black sut, at $w$ bon eren wom. hater Jack had to cast a second glince.
was so excediugly pretty and attractive.
"Where's my old lady?" he sald to blmself "Somethlug unst have happened, for she ls comerninly not here. I monder why she dld not
come But
back to the buggy when he sali the hand soue ghil standug near him with a perplexed look ou her lovely face.
Jack stepped up, lifting hls hat
"1Beg pardon, mlss, but can I akslst you?
The lady gave hin a smlle, aud auswered: "Yes. I did expect some one to mee mer
frou Wodslde Finn, but no one is here. Are there any converamees to be hilred at thls
place, do yon linow?" "I do nat, indeed," retmerd Jark, aston-
1:hed. "lint I conne from Woodslde msself.
 The lads simllecl :1galn, :1nd sald. brightly: "oh. thed we :re all ripht: I am Ins.
Captalu Dermote, aud you must be the frleud
city."
$\because$ I am Sain's friend, certainly, hut-hut there is some mistake," stammered Jac I came
A merry little laugh mas his ansm
"I think there is no mistake, Mr.-
-TVank rou, Mr, Cameron: then I heliere is all right? I am Sam's grandmother, though perhaps not so old as might have been Dermott was marrled ouly wears hefor his death? And I was not sorir. eren if he was au old mau, for he was so good to me, she added, honestly, a regretful look coming rer her sweet face

I-I never beaulan
h, excuse me, mis-madim, I mean not
 forgive the slang, with this surprise I was prepared for a white-haired. feehle old ladr, who would need help in getting off the thain but not-not this, you see?"
Another merry laugh from Mrs. Dermotr. "1 wonder Sam or Jime did not tell you Had to eorer to Clorerton on somehory arrsuit. So I took his place. And realls, Mrs. Dermott. I'm not always such a fool: Pardon me, and tell me where to find sour baggage. I will see to having it sent out.
"Thank you. There is only one trunk. Here s the check
She gare it to him, and he had presently had put her iuto the buggs ond the farm, had put her iuto the buggs, and was driving dumb. He simply could not talk, he was so prorokeai at himself for making so great a dunce of himself, and at Sam, whom he saw had played a clever trick on him.
"I know now what he laughed at this get wen with bin for this, if I have to be his grandfather to do it!"
When they stopped at the door Nime came running out to meet them.
"You found her, did you?"
"Yes, I did, and I made a hig fool of myself, Miss Jlime, aud I believe yon and Sam Then they all thr Theu the dermee broke into a laugh, and Wheu Mrs. Dermott, after she had kissed
Nime. held out her white hand and said, pleasantly, "But you mustn't he angry with me, MIr. C'ameron, for I was as innocent as rourself. Shall we he friends?" he could do nothing hut extend his own aud say, humblr:

It shall not he my fault if we are austhing else. I don't care those grandmother you
But wheu he was alone with Sam that night, didn't San catch it
"I declare, I nerer thou

I declare, I nerer thought hut what rou knew," he said. When Jack would let him
speak at all. "Graudfather Dermott maried speak at all. "Graudfather Dermott married a youlg girl a few rears before he died, and "She dou't look like a girl tho would make that
"It was not 'that kind of a marriage' as Fou mean it. Grandfather was alone, and needed a woman's care and lore, Cora gave it hecause she pitied him, much more than
because she kuew he rould leare ber a for tune when he died. She's a lovely woman, and might have made sereral good matches since grandfather went, but she wouldn't listen to them. Jack, she'd suit you to a dot.'
"Perhaps I wouldn't suit her, though. Sam, When you saw I did not
Why didn't you tell me?,
"Trell, then, I must confess it struck me to carry out the joke, and let rou find out for yourself, so 1 stopped Mime when she going trou't promise; it depends. I'll tell you what I will do, if she dou't sar uo. I'll pay Sam.
"Go in, Jack! Go in, and win
Jack did win, for the last letter sam had from him tras Tritteu rbile he was ou his wedding trip, and was signed "Your affection ate aud happs graudfather.

## WHAT A RUBBER.TREE IS

Let ine tell you just how a ruhber-treelooks. hothouses the plants frou which our rubber comes. Tou are mistaken. The rubber-tree
with its thick. Elossy green leaves, which rou have seen is hat wheh produces the gutta-perchat. It is nothing like the great tree from which comes the best rubber of
commerce.

hlossoms in August, heing then corered with little white flowers. It is a nut-tree, and in December aud Jauary, when the nuts are
rlpe, the shells which contain them burst with a noise like a fire-cracker, throwing the nuts to some distance. There are so man. gather euough iu one day to plant a hude acres of laud.
The trees cau he easily grown in the right soil, and they thrive without cultivation. It takes, however, from fifteen to twentr rears is fore they are old enough for rubher. Thi aud at pesent the trees whlch produce ruh ber are wild.
The rubher comes from the sap of this tree. The tapping is done from the ground from the roots to as high up as a man cau reach. and sometimes still higher. The trees are not hored with augers, as our maple-trees, no of our Southern states. The tapping is done hlade tomahatis The rerer makes a light gash in the bark with thi hatchet, just deep enough to go through with out cutting the wood. -ds he draws out the The fluid is as thin as milk. It is much lik the juice of the milkweed. The tapper now takes a little cup of tin or clay ahout as hig a an after-diuner cotice-cup, and fits it into an other cut rbich he makes helow the gash, so that the drops of milk run down into it. H makes three or four gashes in each tree, fir ting each mith its cup, aud then goes on tree allotted to him has been tapped.
He does this earls in the morning when from tree to tree aud emptled the milk from the cup luto a gourd-like hucket. Each will have a teaspoonful or so of milk, and i for hls morning's work he gets a gallou of fluid he has doue well. The milk flows slowe and slower as the day goes on. The air coagulates it and after a
stopped up the wound.
A ruhber-tree $\boldsymbol{\pi}$ hich has been tapped look like a mass of festering sores. The bark of a smooth and heautiful silver gray where it has not heen touched, becomes scarred and wartr br the rouuds of the hatcbet. As the down in the bark about them. This comes out after the cup has heen remored. It is second-grade rubher, hriuging from twenty to fifty per cent less than the rubher gathered in the cups, which can he properls cured I neglected to sas where the rubher-trpes hing as a rubber grove or a rubber forest The trees do bol grow in a roups. bit ther are scattered among other trees, so that you often hare to go long distances from rubbe tree to ruhber-tree.
The forests are dirided up into paths of paths lead in and out of the wheods. The paths lead in and of the wools, wo wamps, uutil all the trees on them bave seeu reache Fach puth is allotted to one mau, who gashes the trees aud gathers the ruhber upou it. The size of a plantation is lnown by the number of paths or roads it contains. There are some plautatious which contain more than 1,000 roads.

## HOW THE LAW DEFINES SOME WORDS

Legal phraseology is so inrolved that the larman bas sume maklug head wheu lawrers, judres aud courts of oppeals fall out over the definitions of ordinary Engish words it would seem that something ougbt to be done to help them out.
Iu law wurds are held to be worth nothluer except in connection witb the lutcution with which ther are used or tabell, and the amums of a look or other expresslou of comutenatuce is held to be quite as calpable of correct iuterpretatiou as a spoken word. Words are to be understood in their plalu, ordinary and popular seuse umess they have galued, in respect to the subject matter, a peculiar seuse by the knomu usage of trade aistinct froun he popular seuse of the same words.
But the trouble is that after laylug dowu these plaiu and comprebensire dleta one meauings whlch the sime words have. The defilitiou of the word "car" has cansed much litlgation. A certain street-rallway frauchlse was granted on conditiou of tbe payment of the "anuaal liceuse fee for eden car now allowed br latw." An old ordinauce at that tlme requlred liceuse fees for enc was held that the city was entitled to the same llceuse fee ou a car as was fixed by the
old ordluance on a stage-coach. The defend old orduance on a stage-conch. The defeni not meutloued in the old ordmauce it dal not apply to thelr cars. Tbe court declared that didinance enumerinted a stage, an accoumodr-tou-coach ind a sturceroach, but whe sitent as to al ilta forcible, as lu definitiou a car or conch or stage or starecoiclu ls the sam Th, ronfusion mevialhag lame. this country as
to the words statlon :and depot has led to

| many lawsults. Properly a railroad s is a place where rallroad trains reg | tion, and in thls state it has universally received the appellation of a 'hook.' So in legal |  |  |
| :---: | :---: | :---: | :---: |
| come to a stop for the conve | , |  |  |
| s, taking in and discharging freight, <br> is distluct from depot, a term pro | An | 1 grows everswhere that elough earth |  |
| designate the buildings |  | can be found above the coral reefs to yive |  |
| e meaniug of a Jewr Hampsb |  |  |  |
| ute, problbltlug the expulsion of a on from the cars for the non-payment | the book dellvered has always becn parchment." | for food and drlak atud for harter. |  |
| except at a passenger station, it | Victoria's reigu declar | "The juice drawn from the undereloped |  |
| ld tbat the statlou nust be | book shall be construed to mean | flowers of the cocon palm just before their |  |
| a stoppiug.place where passenger tlckets are | include every rolume, part or division of a | budding is very sweet aud pleasaut to taste, and is often siren to sickils or wean | E WESTERN |
| case where |  | children. When allowed to ferment it |  |
| e the lnstructions for the he term "regular station" | of music or dramatle picce. A maga perlodical is a book lu the eyes of t | counes 'toddy', 'he favorlte tipple of |  |
| n the railroad where pa | ta |  |  |
| usually stop to let passengers get on or oft |  |  |  |
| tralns, while several Instructlons, a |  |  |  |
| the defendant and refused, defined such to mean the town or rillage in which | ASES, QUEER CURES |  |  |
| Iroud | ssician bas discovered a new use | that put in att Batavia and other prats of |  |
| pot bullding, and not the de | the auony |  |  |
|  |  |  |  |
|  | act |  |  |
|  |  |  |  |
| established for twelre months | shock my patients into good health?" :und |  | Western Female Seminary. Having |
| ral of the state ralliond | yot only proitable, but also entertaining. |  | nced to full college work, in 1895 a new |
| Is country' as depot and station. | suits the shock to the case, but save |  |  |
| England a store is a bullding. A place where | a $u$ оиу |  | - |
| ds are sold is a shop. Iu thls | fully coustructed letters, full of innuen | earlier times the Son |  |
| In Massachusetts it has been held | and threats of injury, will |  |  |
| dletment for breaking a store ca |  | $\begin{aligned} & 1 d \\ & t \\ & t \end{aligned}$ |  |
| derted under a statute | toward recorery. Incldentally the treatuent |  |  |
| other building whatsoever with cr |  |  |  |
| less it be stated in the indict | of the con ralescent, but |  |  |
| that tbe store is a bullding. But in that |  |  |  |
| the judge doubted "whethe |  | America to factories |  |
| essary to arer it, as ln that state the |  |  | $1{ }^{1}$ |
| used otherwise than as and for |  |  |  |
| a bullding." | time of interesting and varied experiences. |  |  |
| that a shop must uecessaril |  |  |  |
|  |  |  |  |
| I | ties of grapes in the name of |  | den |
| a dealer has stored his lee was held a store within a tax statute, the co | where the patlents, clad simply and sufficient- |  |  |
|  | ly in one thiu, abbreviated tunic, ramble over the hills, or minus the tunic, lie on the grass | 2 |  |
| the word store when appl |  |  |  |
|  | cure on the Kussian | E CUSTO |  |
| esignate a store | tion cure in Germany. Germiany is the native | urious incidents and customs are |  |
| Desk-room is not a store | oo, where |  | Corns, Bunions, Aching, Swollen, |
| he statute prorided that all personal prop- |  |  | arting, Hot, Callous, Sore and Sweating |
|  |  |  |  |
| town in which It was so emplo | but still barefoot, iuvade the neighboring |  |  |
| maer had his store or shop in such | Stin |  | dr and shoe stores sell it, or by mail, 2 cc . |
| ty was beld not to occup. a store or | 4 Paris doctor |  |  |
|  | noble efforts of a disapproring chaperon. $\ddagger$ | the most of things generally. A lad went out |  |
| rrance case, and in a burg | tank of metal, lined with fur, is sunk in |  |  |
| loon and restaurant was held to | larger outer tank, and the space between the | poor; but they wanted to malie him think |  |
| "artlcle," so often used |  | tbat tbey were-well-to-do. \ow, the father |  |
| written contracts, is flexible enough | lowers the temperature of the inner tank to |  |  |
| e much | The nerrous patient is put into this refrig- | a shocking dust in the house.: So be went |  |
| rticular drug separately a | erator and kept there for a fer momeuts, the |  |  |
| atifi and then wrapped in a single pack |  |  |  |
| age similarly adaressed. The receipt or bill |  |  |  |
| of lading contained a clause stipulatlng that |  | is |  |
| any loss or damage to the article for- |  |  |  |
| marded. Only one of the cases reached |  |  |  |
| tile. It was held tbat the "artlele" | to 1t. Tbe patie |  |  |
| ded was the single package and tbat | are cordlally inrited It amuses the bees a |  |  |
| intiffs were not entlt each of the missin |  | $\begin{gathered} \text { nan } \\ \text { an } \\ \text { sid } \end{gathered}$ | \& HEALY, citicago, sitil. |
| s had contained differ |  |  | per |
| and tbe company had had knowledge of fact, the decision would have been diffe | responsible for the rheumatism. |  |  |
| In another case the words "any | * |  |  |
| trouble. $A$ printed notice wa | METHING ABOUT COCOANUT |  |  |
| the carrier would not be liabl ount exceeding $\$ 100$ upou "any | ere are three stages or different condi- |  |  |
| this mas held to qualify his respol | tions |  |  |
|  | passes, in each of whica in is excllent, sand |  |  |
| entire content | Ca |  |  |
| a piece of baggage not exceediug | tra |  |  |
| any one item. The indiscri | had paused at a fruiterer's stand and was |  |  |
| der and lodger have cause | played there with an alr of interest. | ta | M. HiLE PUB. CO., 129 E. 28th St., New |
| tion. A "quest" |  |  |  |
| makes uo burgailu for any speclited time, who | green cocoaunt |  |  |
| es and goes as he pleazes and pa, the actual entertaiument whicl | and are blended together in |  |  |
| the actual entertaiument which | sisteucy of |  |  |
| Merely staying a lo | mar be scooped out and eaten wit | prepared mith her orn |  |
| To board, according to the law. is to recei | against the inside of the shell and the | ratifying her guests, it is taken as a |  |
| mith or without lodging for a compen | mithin is filled with the fragr |  |  |
| tion. A lodger has been defined by the courts | milk, one of | hole family by whom she was instructe |  |
| do min a bed in another's house | drauglits that a man can find in the tropical |  |  |
| no has a bed in another's house |  |  |  |
| drecty as objects of hitigation, or | cocoanut is sprouting |  |  |
|  |  |  |  |
| derr was iuto court, and nuca |  |  |  |
| uence have heen expended in effort e what is and what is not a book. | eak, and one a man ever |  |  |
| wherelt was |  |  |  |
| tion printed on a siugle sheet of paper |  |  |  |
| a hook within the meaning of the old statute the court set forth that " ${ }^{\text {Ther }}$ | none. Here is where the green sprouts are to be looked for-in the monker's face, as the |  |  |
| ling in the word 'book' to require |  |  |  |
| it shall cousist of several sheets bound gether or stitched in a cover. 'Book' is fr | they call a mouth and eres in the small end of the nut. |  |  |
| dnglo-Saxon <br> the rind |  |  |  |
| er to our German aucestors. ${ }^{\text {a }}$ | wed |  |  |
| therefore be applied to any mritling. aud | with this fiuid. The resulting compound is |  |  |
| 发 |  |  |  |
|  |  |  |  |



Is always conrenient to have a number of palm-leaf fans tied
with pretty ribbons lianging on the reranda. These fans can he made into charming sourenirs of "one summer" by adding those uuusual little
brilliants known as brilliants
ideas. It is done in this fashion:
From day to day, as obserrations are From day to day, as obserrations are
taken, uote down rers neatly and rery briefly all the birds you can discover, and at the close of the season your fan is an interesting souremur of the ornithology of the pass, note down all the wild flowers yon are acquainted with This matingly be are acquainted with. This may fittingly be note down all the sounds of nature, the buzznote down all the sounds of nature, the buzz ing of honey-bees, whirring of grasshoppers,
stirring of leares, silrery octares of falling stirring of leares, silrery octares of falling rain, all the notes shrill and loud, softened and sweet, that thrill together
stringed orchestra of a summer's day.

Students of the social and political aspects of the day will enjoy a fan deroted to leading events in history. Such a fan would be of special ralue this summer when so many interesting events circle around the Peace Conference. Recent and curious inventions might occupy another fan, and a fan deroted just to topics of conversation yon
tened to will give endless diversion.
These fans will be as rare and raluable a precious china if preserved long enough, and like odd tea-cups will help conversation drift from meaningless gossip into new, fresh and delighttul currents. Conversation is too often wasted in platitudes, when it should be oue of

## Fraites Bexvett callaway.

## PRUNES

Any number of the feminine readers of Farm and Fireside who con these household pages regularly, at first thought, and upon first glance at the subject of thisarticle, will consider it one of so little importance and interest that they will be tempted to pass it by. Indeed, they may pass it by without giving it a thought berond one of contempt. But I hope every one of our housewives will read, for there is not only "food for thought" in the talk, but there
is food for brain and nerve in the muchis food for brain and nerve in the muchdespised fruit under discussion.
I term it a "much-despised fruit." And despise it, either, though many people of

personal finance was at low ebb, "times hard," and pruues correspondingly cheap, for some reason, I became so thoroughly tired of them that I would have passed by the best article ever written with so pro saic a subject as the one I have chosen. that time, for a fell years, prunes were "one hoo many for me;" and eren the head of the household, once an inveterate prune consusauce. In fact, since learning of the soothing aud medicinal qualities of prunes, I have wondered if his insatiable appetite for, and his great consumption of, the great plump chunks of (prune) plums may not have accounted somewhat for his good nature and happy disposition, and that always manifest spirit of ability to see at all times the bright and hopeful side of life
Fifteen or trenty pounds of prunes for a dollar makes very cheap fruit, and especially so when taking into consideration the fact that very little sugar is needed to make them palatable and "plenty sweet." However, the best grade of sweet prunes comes a little higher-three pounds for a quarter, twelve or thirteen pounds for a dollar. It pays to buy the best if you can; but rather than no prunes I would take the twenty-for-a-dollar kind.
To have them, at their best wash well, and put to soak orer night in cold or warm water, not hot water. Long, slow soaking makes theur plump beautifully. Sently, and stew them in genty, and stew them in in. Before they are sent to the table I prefer to them. With a skimmer they are lifted from the juice about them, and one by one they are carefully pitted between fingers and thumb. When eating them with bread and butter it spoils all the pleasure of the dish to have the pits grating against and beween the teeth
But it is the medicinal side of the prune question that I would call attention to particularly. A physician of one of our large western cities claims to

## hare proven the prune a moral agent, and full of

properties of a medicinal nature; and it is took up the matter and began a series of investigations, being very much interested in their subject and so pronounced prune opinions. The medicinal properties of the
prune act directly prune act directly
on the nerrous sys tem and upon the nerve centers. This nerve centers. This
same physician says that when people are cross, and not honest and pure and true, and are uncomfortable to live with, nine times out of tem is ont of order and that prunes will cure them. He adlvises eating them in and out of seasonable hours (meal-
times). "Eat plenty times). "Eat plenty "They will set you straight everstime."
exceedingly morlerate means and an overpowering fruit appetite have practically fred on prunes, mint to say they were heartimildly: I dways did like phanes myselfthat is, most always. I must confers that there was a time, howerer, when we hived fruits were scarce and high, and when onr

The doctor claims to hare marle prumes a special study, and tells some womlerful sto-
ries of even the noral effects of prue dieting that have come under his observation. He says it has made the most unruly mortals tractable and docile, and has been known rigible a whole houscful of unruly, "incor Prunes to be eaten as a medicine, he says,
should be simmered at least three hours, and without sugar. We like then best without sugar; that is, I do. The head of the house hold says I need never speak for him The
saying that cookery of almost any kind is saying that cookery of almost any kind is
better without sugar, for he begs to disagree with me. Plenty of sweets and sugar in ererything best suits almost all men.
One of the prettiest little stories of accomplished self-government, after a long time of irrepressible aud insufferable hilariousuess as the direct outcome of orerwrought and broken-down uerres, is told by a girl who claims her whole life was changed through the beneficent effects of changed through the beneficent effects of a prune diet, as prescribed by a physician fo whom the went in despair. She confided to the good doctor that she had passed beyond her own control, and that she was broken in spirit and health, and insisted that something almostsuperhuman would have to interrene between herself and her distracted nerves or she would go mad. He laughingly told her that all she needed was prunes-just plenty of prumes. She scoffed the idea to scorn at first, but she concluded to take the doctor's advice aud follow out his prune prescription. In less thau a fortnight, she claims, she felt like a new creature, and conducted herself accordingly. She had been of a hilarious, nagging, irritating na-ture-happiest when making some one els ill at ease and unhappy and uncomfortable in general. She had not really intended to be lateful and irritating, but mas in some way
prunes and bread and butter for one out of dear thee daily meass. If not, try it, my dear readers. You will find it a lunch fit
for a kíng. You will enjoy it, and you will

be a hundred per cent better off in physical condition. If you are one of the feminine mortals who lament the lack of sufficient flesh for beauty, use plenty of milk as a drink with this meal, and rich crean on the prunes if you love cream. If oue of the obese afflicted and troubled, leare the glass of milk alone and dispense with the cream. In truth, if predisposed to put on flesh to an altogether too superfuousextentBut that is another story, and we will talk f it another time.
Ella Houghton
TABLE-COVERS AND LUNCH-CLOTHS
The one lunch-cloth llustrated is of very elegant imported roundthread linen. The decrations stamped on it re called Wedgemood, and are worked in the blue of that particular ware. It is a very legant affair when fin. shed and would quire a great deal of time and patience to time and
irresistibly led on by the general tenor of her inner tempter to keep things stirred up, and people's tempers upon the keen edge of reseutment. When her friends began to question her concerning her changed manner and appearance, she had ample proof of the efficace of prunes, and declared to them that it "was all on account of a prune diet."
"Thy," said one of her chums who had not seen our prune friend for some three or four weeks, "what has changed you so? The whole expression of your face has changed You seem to have so little to sas, and your roice has growu gentle and low: It sounds sweetly. Your complexion is lovely and your eves are so bright, and there's such spirit of content about you. Is it love that has orertaken you?"
answered the prune advocate, isn't love; it's prunes. Say, waiter," to the man who presented himself at the table where the two girls had chanced to meet at dinner-time at a down-town restaurant, "please bring me a big dish of stewed prunes, ome bread and butter and a glass of milk-" Her eompar and Her companion ordered an oyster pate trawberry shortcake with plenty of cream, and a bottle of ginger-ale, etc., in the mean time poking fun at her friend because of the prune and bread and butter lunch just or dered. "Laugh all you please," she replied but prunes have made a new girl of me. tell you the prune is a great moral ageut and medicine besides. It drives away fits of depression, makes one sweet-tempered and kindly disposed, and lielps a nervons person to get hold of herself to regain normal equilibrium. Fou already see what change and what wouders it has worked n me.

The other is a cloth of the same material worked in wools in the original shades of the small sunflowers and poppies. This work is more rapid than the first one, and very
The Battenberg design is always a farorite with every one, and alwars pars oue for the time expended upon it. B. K.

## $\downarrow$

## DINNER FAVOR

Those who are always looking for the latest novelty will be interested in a dinnercard that was used at a very "swell" dinner, more particularly since it can very readily be fashioned by deft fingers, skillful brush and water-colors to serve in similar manner at some social function, and be quite as much a work of art as the more expensive original creation.
This dinner-card was made in the shape of a large rose-petal measming perhaps one and tapered to a point at its base, looking as if it lad been plucked from a magnificeut Bridesmad half-blown bud so perfect wis it in shape and coloring
It was made out of very thick white paper, daintily tinted from a deep rose-pink at the top to almost a white at the base, the point of the base bearing a dot of sellow. The upper edges of the petal were curred back, and across the face was written in gold letters the name of the gucst. The back of the card was similarly tinted in rose, but showed a lime tracery of delicate gracefna reins. This card, designating the place in tended for each gnest at the table, scriml also as a sourenir of the occasion.

Emai Lotise hatcien Rowe.

## THE bOYLESS TOWN

cross old woman of long ago Declared that she hated noise: The torn would he so pleasaut, you bnow he scolded aud fretted about it till Her eses grew heary as lead, For all the boss had fled.

Ahd all through the loug and dusty stree There wasn't a hor iu view
The haseball lot where they used to meet Wias a slght to make one hlue The grass was growing ou every hase, Aud the paths the runners made Who knew how the game was played

The dogs were sleeping the lire-long da Why should they hark or leap?
There wasn't a whistle or call to play. Aud so they could only sleep.
The pons ueighed from his lonely stall, a ud longed for saddle and reiu: And ereu the blrds on the garden wall Chirped only a dull refrain
The cherries rotted and went to wasteThere was no one to climh the And nobody had a single taste,
Sare only the hirds and hees There wasn't a messenger-hoy-not oneTo speed as such messengers can; If people wanted their errands done They sent for a messenger-man.
There was little, I ween, of frolic and noise There was less of cheer and mirth; The sad old town, since it lacked it Whas the dreariest place on earth. The poor old woman hegan to weep Then woke with a sudden scream; Dear me: she her, bare heen asleep And oh, what a horid dream!"
-R. C. Tongue, in St. Nicholas.

## KEEP THE CHILDREN AT HOME

Iis a deplorable fact that a great majority of the parents who live in the small cities and towns of the country are losing con g laxness in this respect among parents all orer the country, but especially is this the case in small cities and country towns. Tisit almost any of these that do not have a cur-
few ordinance upon their cits statutes and you will see crowds of boys and girls, from six to sixteen years of age, congregated upon the streets, shoutiug, laughing, and indulging in the street slang so common in towns and cities. Thus, through the negligeuce of parents the very best learn to associate bad
the rery worst, and are led into all the bad habits that result from such associations.
Hany children who attend church and the streets after services are over, and disthe streets after services are over, and disiter every one else has retired. To many after erery one else has retired. To many readers this may seem to be a matter of little importance, but it is a matter the
iuportance of which can hardly be iiuportance of which can hardly be overesti-
mated. In most of these cases the cbild begins this street life at that age in life when he is most easily led into vice by older and more experienced children. Like the twig which can be made, by outside influences, to grow in any direction, so the child
at this age is most suscentible to outside influences for either good or bad. At no time in its life does the child so much need the refining influence of a good home and mother.
A very large per cent of our criminals receired tbe first lessons in their art upon the street. In fact, almost all of the criminals have come from that class of children who are to be found growing up on the streets
of our cities and towns. Many parents are unconsciously, by their orn criminal negligence, allowing their children to roam at will upon the street and grow up into all sorts of criminals. TVe expend millions of dollars annually for the support of schools and churches, in order that the race mas improve, intellectually and morally, and then let our children run at large, where they acquir

## Ferr parents seem to realize the great re-

 sponsibility which, especially in a government like ours, rests upon them as parents.It is high time that ther arouse to a sense It is high time that they arouse to a sense
of their duty. The race must be improved, morally at least, and it is the duty of every parent to use his utmos iendeavor to leave each succeeding generat on better morally than the preceding one. The parent who does not do this is not discharging that soleinn duty which he owes to himself, his family, his country and his God. In many towns and cities the duthorities have been compelled to pass curfew ordinances, prohibiting children within kertain ages from ap-
pearing on the street after certain hours Thus the city authorities have been compelled to do that which it is the duty of the parent to do. If parents conld be awakened to a realization of their responsibility, and could be shown the evil effects of street loitering, it would accomplish much good
The problem of keeping children at home in towns and cities is one which seems dif ficult of solution, even for those who try to
do so. It may be said that a cliild will do so. It may be said that a clild will not wauder from a well-regulated home
Surely a home should be made so attractive that the child will choose it in preference to the street. The home should be made the most attractive place ou earth for parents and children, and it is the duty of every parent to use his utmost endeavor to mak it so. When this is done the child will not be seen on the street except it be necessary Let parents treat their children with unore whom $\begin{aligned} & \text { they } \\ & \text { wheet on the street. Entertain }\end{aligned}$, whom they meet on the street. Entertain
them with slort stories containing good then with slort stories containing good
moral lessons. As soon as they can read provide them with an abundance of good wholesome reading matter suited to the age and mental development of the child. Great care should be exercised in the selection of this reading matter lest that be selected which is dry and uninteresting to the child, because not suited to his age and mental de relopment. There is an abundance of good books suited to all ages and all stages of mental growth. They are so cheap that they are within the reach of all, so there can be no excuse for not providing every home with an abundance of them. Instead of telling them to run off and play in the evening after supper, gather them about you and entertain them with short stories containin morals. Take part with them in their games and otherwise make them feel that you are somewhat interested in them. When other children come to your home to visit your
children, do your very best to entertain them children, do your very best to entertain them all, instead of telling them to run away and play, thus making them feel that they are unwelcome guests.
In this way they will become thoroughly permeated with those good moral thoughts and sentiments that lay the foundation of true manhood and womanhood. In this way the parent will be discharging his duty as the parent will be discharging his duty as
a good citizen. In this way the pareut will make the world happier by bequeatling to inals. Sterfart a. Beals.

## BLOCK AND BAR LACE

Abbretiatioxs.-K, knit; n, narroti; o Car; p, purl; b, bind.
Cast on 31 stits
Cast on 31 stitches.
First row-Slip 1, k 2, o, n, k 1, o, n, k 1 , $\mathrm{n}, \mathrm{k} 1$
Second row-K $3, o, n, k 1, o, n, k 1, o, n$
$\mathrm{k} 7, \mathrm{p} 1, \mathrm{k} 5, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$.
Third row-Slip $1, \mathrm{k} 2, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$, o. n, k
, n, k $13, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$.


Fourth row-K 3, o, n, k $1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$, o
$\mathrm{k} 13, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$.
Fifth row-Slip $1, k 2, o, n, k 1, o, n, k 1$, times.
Sixth row-K $3,0, n, k 1, o, n, k 1, o, n$ $\mathrm{k} 6, \mathrm{p} 1, \mathrm{k} 2, \mathrm{p} 1, \mathrm{k} \overline{\mathrm{j}},(\mathrm{o}, \mathrm{n}, \mathrm{k} 1)$ three times Seventh row-Slip $1, \mathrm{k} 2, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$, Eighth row-K $3,0, n$ n three times.
Eighth row-K $3,0, \mathrm{n}, \mathrm{k} 1$,
$\mathrm{k} 15,(0, n, k 1)$ three times.
Ninth row-Slip $1, k 2, o, n, k 1, o, n$
$k 1, o, n, k 3,02, n, 02, n, 02, n, k 6,(0, n$,

1) three times.

Tenth row-K $3,0, \mathrm{n}, \mathrm{k} 1, \mathrm{o}, \mathrm{n}, \mathrm{k} 1$,
$\mathrm{n}, \mathrm{k} 6, \mathrm{p} 1, \mathrm{k} 2, \mathrm{p} 1, \mathrm{k} 2, \mathrm{p} 1, \mathrm{k} 5,(\mathrm{o}, \mathrm{n}, \mathrm{k} 1)$

## ree times.

Eleventh row-Slip $1, \mathrm{k} 2, \mathrm{o}, \mathrm{n}, \mathrm{k} 1, \mathrm{o}$,
$1,0, \mathrm{n}, \mathrm{k} 18,(0, \mathrm{n}, \mathrm{k} 1)$ three times.
Twelfth row- $B$ off $6,0, n, k 6$, make on
titch, $\mathrm{k} 12,(0, \mathrm{n}, \mathrm{k} 1)$ three times.
Repeat from first row. L. A. Perkins.

He hath news from the lower country
The cabbage is a raluable article of food and is oue of the most generally used reg etables, particularly in the farmer's house hold. Its nutritive properties and whole onne qualities, especially: when combine rith animal food, are well known by house Eeepers. Medical opinions state that cal. difficult for some stomachs to digest, but thich mar be remored by boiling in two aters. Uverboiling extracts much of the nourishing qualities as well as the flaror of
this regetable, and should be aroided when this regetable, and should be aroided when
The early varieties of cabbage should be used while young and tender, but that for winter is best after a touch of frost hals ripeued it. To cook cabbage, boil in one water until half done, take up, place in a colander, pour cold water over, let drain, return to the kettle, cover with boiling Even after being cooked cabbage putrifies ery rapidly, and gives out a sag putrifies odor, and should not therefore be left stand. iug in the warm kitchen.
Cabbage may be served in a variety appetizing dishes, thus making it acceptable on the family table several times a weel during the cold weather
Stened Cabbage.-Cut a head of cabbage into halves, let soak in cold water one hour, drain and shalie dry ; remore the stalk and chop fine; put into a saucepan, cover
with boiling water, and let boil twenty minwith boiling water, and let boil twenty minutes; drain, turn into a heated over a teacupful of cream sauce.
Stlffed Cabbage. - Select a fine head of cabbage; pour boiling water over it, let staud fifteen minutes, drain, and scald again; shake dry. Hake a stuffing of two tablespoonfuls of rice, half a pound of
sausage, a teaspoonful of chopped onion and a tablespoouful of parsley; ruix well. Open the cabbage to the center, put in a teaspoonful of the mixture, fold orer the next layer of leares, put in more stuffing, and continue uutil each layer is stuffed. Press firmly to gether, tie up in cheese cloth, put into kettle of boiling water, add salt, and let boil two hours. Wben done, carefully remove the cloth, stand the cabbage in a deep dish, pour melted butter over, and serve.
Cabbage a la Flaidene.-Take off the outer leares of a firm head of cabbage. Cut the head in slices, put into a saucepan, with a tablespoonful of butter, a slice of onion, two or three cloves, a small pod of pepper and a teaspoonful of salt; set over the fire to simuner slowly for one hour. Take up in a heated dish, pour over melted butter, and

Southern Cabbage.-Cut up a firm head of cabbage, put into a saucepan with boiling water to cover, let boil fifteen minutes, rain. Put into a saucepan, with a teacupful f riuegar, au ounce of sugar, a teaspoonful of salt and mustard each, half a teaspoonful of pepper and a tablespoonfül of salad-oil; put orer the fire for half au hour, add a beaten egg, with a teacupful of cream, stir, and let cook five minutes.
Cabbage Pudding.-Boil a small head of cabbage with a slice of bacou. When done, take up, chop fine, mix with a tablespoonful of butter, three well-beaten eggs, one teacupful of milk, two teaspoonfuls of mustard, with salt and pepper. Pour into a buttered pudamg-dish, cover the top with stale bread-crumbs and bits of butter, and set in bread-crumbs and
the oven to brown
Warm SLaw,--Cut fine enough cabbage fill a quart measure, sprinkle with flour Put a tablespoonful of butter into a saucepan, with half a teacupful of rinegar, two beaten eggs, a teaspoonful of salt and a dash of cayenne; stir orer the fire uutil hot, add the cabbage, with a teaspoonful of sugar, corer, and let stand five minutes. Serve hot

Eliza R. Parker.

## ECONOMY VERSUS SCRIMPING IN THE HOME

Foreigners frequently inreigh against American wastefuluess, and with some justice. We have not, as a people, the thrift distinguishing some other nations. Our exteusire country and the larishness of Nature is in a measure responsible for this, and no doubt the readiness with which fortunes have been made among us has con. tributed to our extravagance.
Econoiny has a disagreeable sound in our ears. The impression prevails that it is means the frugal conduct of the home or business enterprise. It might be summed up as living within one's income, or, as a little

Frenchwoman puts it, "Economy is ze best of ererything for ze leastest monnaie." It is a relative term. What would be penuri-
ousness in one person might in another be only good management of slender means. "Comfort without waste" is the watch word in every well-ordered household, and
the application of economy in the howe the application of economy in the home re quires intelligent thought. It is our duty to
give it this, and should be so regarded. It give it this, and should be so regarded. It
is the little daily leaks that is the little dally leaks that mount up so in bits of butter, meat, cold regetables, and, turning from the eatables, it is the "stitel in time" neglected, the hundred "loose lessen the income
Nor does economy signify scrimping. The person who scrimps wastes as much as is saved. Faihure to provide good nourishing food, when able to afford it, is in reality an extraragance of the most reckless kind, fol our bodily rigor, and mental power as well, is quick to feel the lack of proper sustenance Scrimping makes of life a dreary routine robbed of all attractiveness, for people who scrimp seem to think they must also limit the amount of eujoyment in the world. To be comfortable is a sin in their eyes.
Of the two evils, extravagance and scrimp ing, the last is certainly as deplorable a the first; with the one a fleeting pleasure is at least obtained, perhaps given, but the scrimper ministers neither to her own happiness nor to that of others. Scrimping undoubtedly deteriorates the character. All the finer attributes seem to wither under its influence. There can be no unstinted giving of love and praise and sympathy, no broad compassionate outlook on the world's sin and sorrows in such a one. Not that econ omy quite implies elevation of the moral and spiritual nature, but whatever couduces to the well-being of the home lessens the arenues of temptation, and good housekeep ing has far more to do with domestic peac than we take account of. There is a dignity in attention to the details of the home life which lifts it from out the commonplace and blessed is she who, with good sense and judgment. "looketh well to the ways of he household." Mari MI. Tillard.

## SILK BISCUITS

Have you ever seen a biscuit-cushion? It is very handsome, and can be made from scraps of seing by far the ruost effective. The
course, biscuits may be auy size you wish, but to be really pretty should not be too large. Cut a square of silk four inches in size, and a square of sllk four inches in size, and
square of muslin three inches in size. Baste the silk on the lining, laying the surplus silk in the middle in a plait. Baste down thre sides, stuff the biscuit with cotton, then plait and baste the fourth side. To make a cushion of nice size you will require least forty-nine squares or biscuits.
If you wish to finish nicely, make a ruffle of broad ribbon, or with fancy stitcl catch three narrow pieces of ribbon together and use for a ruffle; or make a double ruffle of use for a ruffe; or make a domblike or sateen of some gay color silk, silkoline or sateen of some gay color,
line with the same, and you bave an elegant line with the same, and you bave an
new corer for sour old sofa-cusbiou.
Bed-spreads may be made following the same geueral design, but haviug the blocks larger. Make the lining four inches and the top six. Slumber-robes are yery attractive made in the same style and finished with ruffle of bright silkoline.

Margaret M. Moore.

## dISPOSAL OF KITCHEN WASTE

Some people talk about the dispensations of Providence when aftlicted with fevers or diphtheria; but a look about their back door would indicate a possibility of more humble causes. If there is no drain to carry away the slops, do not throw them upon the ground in one place until the soil is blistere and sour and rank with disgusting odol There are many plants for which soap sud are beneficial-roses, cabbage, dahlias and cauliflowers, either ornamental or practica Distribute the dish-water among them all. Any water containing salt is good for aspar agus, quince or peach trees if not applied too liberally at one time. Nother used to say "There is a liungry mouth for every crumb; "There is a hungry mouth for every crumb; was a hungry leaf for every drop of water. was a hungry leaf for every drop of water.
If there is no pig to eat up the peeling

## SUMMER BOARDERS

AS THE hot weather of summer comes on dwellers in cities long for the
cooliug hreezes of the country. To urnish accomuodations for these, and at the same time fill their own pock-
ets, many suumer hotels and boardinghouses have been built, the most of them heing well patronized, But there are many mothers with yonng children who wonld much prefer to spend the beated months in a quiet country farm-house where only few boarders are taken, where there is 11
need of ruuch dressing and the full ralue of country air and living could be had. have known a few such ideal places wher wo or three mothers with their little one ent every summer, year after year, and ame hack each fall rested and looking fis the younger than when they went all He children after such a summers would need no other recommendation than thei chubly faces to prove it a reritable health

It always seems to me that children who must live all their childhood years in a cit are defranded, but if they can spend even a ferr week in the country in close contac with Mother Nature, with birds and flowers, hrooks and trees, not only will their health and strength be
Often on a farm where butter, eggs, chick ns, minik, fruit and fresh regetables ar plentiful they cannot be readils turned into pecially during the time of the growing of the regular farm crops and before they are eady for market. At this time a felw summer boarders will help consume the surplu nd pay a good price for the privilege. A few years ago a family came into pos-
ession of an old, worn-out farm. The house was large and rambling, hut in fairly good epair. The fences were nearly gone, and th fields grown up to weeds and bushes, but the natural adrantages were good. Fields whic had once been fertile could again be mad to give abuudant harvests; wooded hillside and a broad meadow through which flowed a never-failing brook, fed by springs, waade a andscape fair to look upon. There was an old applé orclard which still bore some fruit some old cherry-trees and grape-vines. These tere trimmed and given good care. Small ruit, strawherries, raspberries, blackherrie and currants were set out at once. This amily had always lived in a city, but wer lelighted with this conntry home and willing to work to make their venture a success
Che first summer they were on the farm a riend from the citr risited them, and she was who put summer boarders into their minds, and the next summer saw thre in the before unused rooms of the old house. Having lived so long in a city themselve they knew what city people want when they so to the country. Their tahle was always shich ender, juicy ham, rich milk, cream and golden butter were plentiful, with hones fron heir hives. Then there was delicious col buttermilk, bonny clabber and cottage cheese, all home products, Occasionally amb furnished a change for the table, but There were wide old werandas and shad nooks where hammocks could be swung, and the little brook in plain sight from the house was a safe piace for the little follss
to wade and sail their boats; not deep enough in any place to le dangerous, it furnished never-ending delight to the children, nd consequently rest to the mothers. were filled with wire screens so flies and nues fuitocs, which so often make the snmmer boarder's life miserable, were banished No carpets, were on the floors, but comfor of fresh, cool water and clean towels were

The family, rose carly and breakfasted by themen togethei. A stout, gentle old horse and roomy carry-all were at the service of the lourders, and often with well-filled baskets they would go for a picnic in the woods, and the family could hare a quiet day by themchange enjoyed byy all.
Last summer a unique summer-house was put on the lawn. A large old tree hegan to slow shelh signs of decay that it was cut
down. The top of the stmmp was sawed off at a conlvenient leieght for a seat. and in the hollow center of the stump a past was brella such as teamsters use on their wagons,

From the edge of the umbrella strings were fluence from that time on worked a reforma stretched to the ground, slanting outward, strings and corered the top of the umbrella. Space was left between the rines on one side for a doorway
Summer after summer the same families have found their way to this quiet country home, which has nothing of the boarding house about it, and the money left there each summer has enahled the orrner to put the farm in finest condition, repair and refurnish the honse, and add many a comfort and luxury which wonld otherwise have been herond their reach. 'The children have been

educated, a piano, hooks and magazines are at hant; in fact, an ideal country home has the summer boarders ha helped to this result. MaIDA MICL

## LIVING WITH OTHER PEOPLE

I used to think it so strange when a child that the dear old sexton of our church, who was a great lover of little children, so often had the same answer readr when you asked him if he knew such a person. His reply was, "I don"t know them,

Yes, you do know them. Yon visit them Besides, you know nearly every one around here," we would say
He wonld look rery wise and answer "Child, fou never know" people until you live with them. I nerer lived with them Since I have grown up, and have learned the true purport of the kind old sexton: words, I agree with him We may think we know peopie rery well, meeting them of ten noder different circumstances, hut let u happen to live together; then we find out that we did not know each other. It may be that we find them nobler, more self-sacrificing, and haring traits that raise then much higher in our estimation. On the othe hand, the disagreeahle idiosyncrasies creep out often, and traits that you never dreamed of them haring confront yon-traits that make it impossible for them to live with other people harmoniously

An eloquent lecturer upon this subject said that parents ought to begin in childhood to instill principles and teach them habits that will make it possible for them to live in other people's houses.

A charming couple had much trouble in securing board in the rarions delightfu homes surrounding them, which puzzled
their friends. linally it was explained that the tronble lay in people not wanting to take their daughter, fifteen years of age. lady noted for her amiable disposition, and very popular with her hoarders, said she believed she could live with anyhods, and took the family to board. She finally said "No one can live with that poor girl but her parents," The servants left on her ac count, and the hoarders were getting read to do so, when the parents saw the trouble and kindly went to housekeeping. Ther ack nowledged that she was beyoud their control Ah, the pity of it
ovely aunt took her brother's three orphan children to rear. They had been indulged and their wants aud wishes were paramount. They had been considered be
fore others, and the consequence was their aunt's two daughters (whom she was hriug ing up in the same way) saw the utter se fishness and disregard of their young cousin for the wishes of their father and mother The eldest daughter (fifteen years-the same age as the eldest cousin) came to her mothe one day with tears in her eves, and said pathetically, "Mother, if you and fathe shonld dic, like uncle and aunt have, and leave sister and I to live with other people, we would male them as miserable is the consins have us. I'm going to turn over a new leaf. I'm going to think of others be ides inysel, and try to teach little siter
tion in that house and it became a happie honsehold. How quickly the poor little chil dren fonnd ont that their domineering, sel fish, spoiled ways made it impossible for them to live happily in other people's homes It is a suoject for a wide range of thought Only recently I heard a little school-gir say, "I'm rooming with Gracie Black. Erer one of the girls wanted to room with her she is so lovely and everghody gets alon

Tho can measure the influence of one suc girl or woman; who makes up her mind to see the hrignt side of people and circum stances, to he slow to find fault and complain, always watchful for opportunities of giring pleasnre or to comfort some one, to say kind word to the new shy scholar, to shor thought and consideration to the elderly, to lend a helping hand to a tired, orerworked servant? Such people are delightful to live I feal

## Did

Did you ever notice that the people whose cheerfuiness and sweet temper are most re marked upon are often the ones who have the best reasons for repining or being depressed and morbid orer their conditions? Instead, however, they hare turned bravely and tenderly to the needs of others. Som day we hear incidentally what trouhles they have had, and ther seem so much greate than ours that it seems selfish in us to hare poured out our griefs into their willing ears But who has not sone burden to carry some struggle to make? And how sweet and comforting in life's pilgrimage to meet such courage and faith and gladness to help ns on our way!
Let us strive to cultivate this rirtue of hiving with other people, remembering that every human sonl which meets misfortune noblr confers a direct benefit upon the human race. We should not shrink from meet ng people, especially strangers, and feel tha we owe nothing to out
our brother's lieeper.
-If me sit down at set of sun,
And count the things that we hare done, Aud, counting, find
One self-denring
at eased the heart of him who heard, One glance most lind
That felt like sunshine where it rent,
Then way connt the das rell spent
"Bnt if, through all the lixelong dar If, through it all
If, through it all,
We nothing done that we can trace
That bronght the sunshlne to a face,
No act most smail
That helped some soul, and nothing cost
Then count that das as morse than lost.

## Sara H. Hentox

## A WORD TO THE WISE

Just now, when so many tired housekeep
ers are striving to reconcile "summer work" with at least a degree of summer rest, it may ot be out of place to offer a snggestion ing and the like. The suggestion in snhstanc s just this: Don't do it any longer, or least make the experiment of dropping it for one season and note the result, Cans and jars will be emptr, it is true, hut the relief gained will be unspeakable. Eat the fresh fruit-each kind in its season-as long as it lasts, and you will find that, except for short intervals, it is to be had the year round. Then the dried fruits are so healthful and abundant one need never go fruit less, though the beautiful sumner days be pent either in rest or in some more congenial employment than that of filling innumerable cans, while immured in a kitchen perhaps rivaling in temperature the "Black hole of Calcntta."
It is so easy to stay in a rut, especially one which has been patiently traveled since our foremothers landed upon Plymouth Rock; but it must not be forgotten that in the far-away past in which they preserved and pickled, spun and wore, the facilities for obtaining things to eat, drink and wear at short notice were extremely limited, even if any existed. What a struggle it must have
been for our poor great-grandmothers to proride with their own hands everything used for the coinfort of their houseliolds! It is said that we American people have not yet recovered physically from this strain upon our ancestors. It remans now for us to institute an entirely new order of things-to necessary hardships of housekeeping, and do without those things which do not pay for sacrificed in obtaining them.

We are forced to admit that this, hik other good adrice, cannot be made equally useful to all. The difference between living in town and in the country makes work that in one place may be avoided, often a neces sity in another. Yet eren in the country where one's own orchard is relied npon to urnish the winter's store of fruit for the household, at least half the time and labo pent in its preparation may be sared by nning or preserving half as much
n the arerage country home an appetite or sweets is fostered by the plentiful supply with which the housewife loads her shelves, tes dicsal ates distaste for more nutritious food and ministers in no way to the physical wellheing of her family. It is fire years since, br the kind persuasions of a wise friend, I was brought to see the errar of my own rays, and to resolve that for all future time I rould ahjure the annual siege of putting up fruit. For a shortcomings in this respect were ahly discussed and criticized br my female relations -all good housekeepers, born and hred in thriftr Teur England ways. The famili lines wher the grashoper is fer for his illeness and the ant is for fer ind or her industy were repeatedy quoted to wh thou lugar," and the res to the ant, thou sluggard," and the rest of it, was drummed into serrice and aired for my benefit.
All this in fun, of course, but with just flaror euough of "earnest" in it to be detected. Never mind. No one knows that it was detected, and I go on my way rejoicing in the freedom from work and worry, in the vitality and strength I have been enahled to turn into new ehannels of usefulness, while I realize forcibly that the worst bngbear of mmer honsekeeping has heen ranquished Ho many of those who read this will of summer shirks? Don't take pattern from the eels and the fores:

## But preferred the old mar

Lilla A. Whitiey.

## RUGS AND CENTERPIECES

Now that hard-wood floors hare become and centerpieces have hecome almost a neces sity, and the making of them is a suhjec of interest to erery housewife, Of course, it is very nice, if one is able, to bur the hand some and expensire rugs that are alvars for sale in the stores; but they are not alwors within our means, and very handsome ones may be made at home with but little time or expene, and at the sum off garments that always so accumulate in erery household may he used to good ad rantage.
A rug or centerpiece to serve a useful pur pose should be heary, thick and substautialone that will uot seem to take a satanic delight in winding itself about one's fee on the slightest prorocation. Such a rug once caused a frieud of mine to stumble and fall, thereby making a cripple of her for life; and I regret to say that such a rug will often cause the men and boys of the family to use language that they certainly mere learned in Sundar-scliool
I want to tell how to make a handsome and serviceahle centerpiece, that will be a thing of beauty and a joy-well, almost forever, For material use any wool good that would be suitable for a rag carpet-old underwear, stockings, and even men's wea that is not too thick aud heary. Cut the pieces an incl wide if the goods are thick and an inch and a half wide if thin, Gather the strips lengthwise on stont twine, with hack-stitch at every added piece, to kee them from pulling apart when being woven Gather about as full as a common ruffe, and wind in balls. It is worell in a commo carpet-loom. Lse dark warp and hare th weaver leave out every other thread of wap rags between every gathered strip. The breadths may be sewed together for a center piece, or the goods may be woren in commo rug lengths

The center of the rug may be made hit or miss, and a little pale blue and crean color mixed in makes it very pretty. Ther may be a shaded vorker of red across each cnd, and the ends shonld be finished with fringe, but be sure to get the short wool

the path across the field
round me was the beauty The shadow of the woodland, The hounty of the fields,
gleam of shining waters
The murmur of the sea-
All opened wide for me!
Amid these scenes of beauty I spied a pathway ther All hard and hrown aud hare No dainty gown swept orer, Along the narrow limit
The tread of Toll had made.

## Aut meary men and romen

 Beside the way unshaded, Amid the sunburnt grassThelr garments hore the soil Of the hard morld's grim work-darThey walked the way of Toll.
o close against our pleasur
Is the undertone of care, The heat and burden bare. And the fair summer memory Sweet harvest to me yields;
Yet ever lives the picture
Of the path across the fields!
Lucy Randolph Fleming, in Harper's Bazar

## The key

In trorlds unseen, about us and abore, The cheruhim are singing God's own s
Write all life's music in the ker of lore Write all life's music in the key of love,
And yon will chord with that harmonious throng.
Ella Wheeler Wilcox, In The Christian En
dearor World dearor frorld.

## WORRY AND ITS CURE

WORRY must not be confused with in meaning, originally, a "chok ing," or a "strangling," referring of course, to the throttling effect upon indiridual activity. Anxiety faces large issues of life seriously, calmly, with dignity. Anxiety always suggests hopeful possibility; it is active in being ready, and derising measures individual sorrow; it is a colony of petty rague, insignificant, restless imps of fear bination, their constancy, their iteration. When deatb comes, when the one we lov has passed from us, and the silence and the loneliness and the emptiness of all/ things make us stare dry-eyed into the future, we give ourselves up, for a time, to the agony of isolation. This is not a petty world we must kill ere it kills us. This is the awful majesty of sorrow that mercifully benumbs terious working of omnipotence, a rebaptism and a regeneration. It is the worry habit the magnifying of petty sorrows to eclipse make protest. own physician; he must give the case be his treatment. He must realize witb every fiber of his being the utter, absolute uselessnes. place-a place-a bit of mere theory; it is a reality that he must translate for himself from mere words to a real, living fact. He must understand that if he spends a whole series of eternities in worry it would not change the fact one jot or tittle. It is time for action, not worry, because worry paralyzes thought and action, too. If you set down a column can change the sum total of those figures That result is wrapped up in theinevitability of mathematics. The result can be made different only by changing the figures.
whe one time that a man cannot afford $t$ facing. or imagines he is, a critical turn in affairs. This is the time when he needs one hundred per cent of his mental energy to make his plans quickly, to see what is his sky and on his course, and a firm hand on the helm until he has weathered the storm. There are two reasons why man should not worry, either one of which must operate in every instance. First, because he cannot prerent the results he fears. Second, because
he can prevent them. If he is powerless to avert the blow he needs perfect mental con centration to meet it bravely, to lighten its force, to get what salvage he can from the wreck, to sustain his strength at this time when be must plan a new future. If he can prevent tbe evil he fears, then he has uo need to worry.
If man does, day by day, ever the best he can by the liglit he has, he lias no need to fear, no need to regret, 110 need to worry: No agony of worry would do aught to help him. Neither mortal nor angel can do more than his best. If we look back upon our past life we will see how, in the marvelous working of events, the cities of our greatest happiness and of our fullest successhave been built along the river of our deepest sorrows, our most abject failures. We then realize that our present happiness or success would have been impossible had it not been for some terrible affliction or loss in the past-some wondrous potent force in the This should our character or our fortune. This should trials and sorrows of life.
To cure one's self of worry is not an easy task; it is not to be remored in two or three applications of the quack medicine of any cbeap philosophy, but it requires only clear, simple, common sense applied to the business of life. Man has no right to waste his own energies, to weaken his own potrers and
influence, for he has inalienable duties to himself, to his family, to society and to the world.-Saturday Evening Post.

## MARRIAGE MAXIMS

Never marry except for love.
Never taunt with a past mistake
Never allow a request to be repeated.
Never meet without a loving welcome.
Never both be angry at the same time
Never forget to let self-denial be the daily im and practice of each.
Never let the sun go down upon any anger or grievance.
Never neglect one another; rather neglect the whole world besides.
Never make a remark at the expense of the ther-it is meanness.
Never be "stubborn," but let each strive o yield oftenest to the wishes of the other. Never part for a day without loving words o think of during absence.
Never find fault unless it is perfectly certain that a fault has been committed, and always speak lowingly
Never let auy fault you have committed go by until you have frankly confessed it and asked forgiveness.
Never forget that the nearest approach to perfect domestic happiness on earth is the cultivation, on both sides, of absolute unselfishness.

## THOUGHT JEWELS

Some say that the age of chivalry is past. The age of chivalry is never past so long as we have faith enough to say, God will belp me to redress that wrong; or if not
me, he will help those that come after me, for his eternal will is to overcome evil with good.-Charles Kingsley
How can tbe sense that the living God is near to our life, that he is interested in life be full of petty things? Absorption in trifles, attention only to the meaner aspects of life, is killing more faith than is, killed by aggressive unbelief.-George Adam Smith.
The pulpit is just as much needed as ever But it has to do its work in a less attentive environment, and it now needs a keener stroke, a deeper penetration into the actual conditions of life and a more courageous resolve to magnify its office, not by pompous dignity nor by frothy serisationalism, but by vigorous, manly service to the spiritual necessities of the are-Rev. Dr. Henry van Dyke.
God is a kind Father. He sets us all in the places where he wisbes us to be employed; and that employment is truly "our Father's business." He chooses work for every creature which will be delightful to tbem, if they do it simply and humbly. He gives us always strength enough for what he wants us to do; and we may always be sure, wbatever we are doing, that we cannot be pleasing him if we are not happy our-selves.-John Ruskin.

Why make we moan
For loss tbat doth enrich us yet
Tith upward yearnings of regret?
Bleaker than uumossed stone Our lives were but for this immortal gain Of unstilled longing and inspiring pain! As thrills of long-hushed tone Live in the viol, so our souls grow fine With keen ribrations from the touch divine Of noble natures gone.

Almighty! Listen! I am dust Yet spirit am I, so I trust. Let come what may of life or death I trust thice with my sinking breath, I trust thee, though I see thee not In heaven or ear'th or any spot. In heaven or eal'th or any spot. There's one to live and oue to die I trust thee till tbyself shall prove Thee Lord of life and deatb and love. -Elizabeth Stuart Phelps.

## GETTING GOOD SLEEP

Too much cannot be said, nor can the importance be made too earnest, regarding the an invigorator of tired nature. Mental moral and physical welfare depends largely upon sound, refreshing sleep. If the brain or the arm or the foot is weary, suffering from overexertion, nature gives her best service in the way of repair while the sub-
ject sleeps-and without sleep the recuperative process canuot be carried on, so far as the brain and the vital forces are concerned.
How then shall we secure the coveted boon of sound and health-giving sleep? Tbere have been many dissertations on the subject, some of which have been informed with wisdom, while others have lacked that rery essential quality. But the following from an eminent physician may profitably be read this regard: A light supper just before in tiring is usually of advantage. Babies and tiring is usually of advantage. Babies and
brute animals are usually somnolent when their stomachs are well supplied with food, their stomachs are well supplied with food,
the activity of the stomach withdrawing the the activity of the stomach withdrawing the
excess of blood from the brain, where it is excess of blood from the brain, where it is
uot ueeded during sleep. On the other hand uot ueeded during sleep. On the other hand,
people who are very hungry usually find it very difficult to sleep. And then a habit of sleep at a regulated time and during proper hours should be cultivated in case this habit has been lost. In accomplishing this the
attaininent of a favorable state of mind is of great importance. Sleep cannot be enforced effort of the will to commaud sleep is euough to render its attainment ineffectual. The mental state to be encouraged is one of quiescence, one of indifference, a feeling that the recumbent posture is a proper one fo rest, and that if the thoughts are disposed to continue active they may be safely allowed
to take their course without auy effort to take their course without auy effort
toward control. This state of mind and thought is next akin to dreams, and dreaming is next akin to sound sleep. A number of mental methods have been advised and put in practice for the purpose of securing sleep, the design being to turn the thought from objects of interest to a condition of monotony, as by mentally repeating well counting. But the state of indifference, i this can be obtaiued, is likely to be th most efficient as being the least active.

## HE HAS GONE THIS WAY

Oh, when we are journeying through the
murky night and the dark woods of afflic tion and sorrow, it is something to find here and there a spray broken, or a leafy sten bent down with the tread of His foot and the brush of His hand as He passed; and to remember that the path He hath trod He has hallowed, and thus to find lingering fra grance and hidden strength in the remen as we are," bearing grief for us, bearin grief with us, bearing grief like us.-Alexander McLaren

## DUTY AND TRUST

The one thing that brings comfort to a man's heart is to know that he is on the if danger, and peril, and scorn, meet him there, God, who sent him, must take the re sponsibility. When God sends his servant upon his errands he takes all risks; and when you are doing God's work, wben you pursuing God's and know that cross the ocean-then let the storm come; God is responsible for carrying you there, and you may sleep in the midst of it.-F. B. Meyer

## HOT WEATHER DYSPEPSIA

Thousands Suffer From It at This Season of the Year
Hot weather dyspepsia may be recognized by the following symptoms: Depression of spirits, loss of flesh and appetite, no desire for food, had
taste in the mouth, especially in the morning, taste in the mouth, especially in the morning, ache, palpitation, bearthurn. It is a mistake to treat such trouhles with "tonics," "blood purifiers," "cathartics," "pills," hecause the whole
trouble is in the stomach. It is indigestion or All these symptoms rapidly disappear when the by Stuart's Dyspepsia Tahlets. They should he taken after meals and a few carried in the pocket
to be used whenever any pain or distress is felt in to be used whenevcr any pain or distress is felt in
the stomach. They are prepared only for stomach

Stuart's Dyspepsia Tablets are indorsed hy such physicians as Dr. Harlandson, Dr. Jennison and
Dr. Mayer, because they contain the natural direstive acids and fruit essences which when taken into the stomach cause the prompt digestion of
the food before it has time to ferment and sour, which is the cause of the mischief Stuart's Dyspepsia Tablets are pleasant to take person afficted with imperfect digestion. It is safe to say they will cure any form of stomach
trouble except cancer of the stomach. Tearly all druggists seli Stuart's Dyspepsia $==-=$

## THE NEBRASKA=

 COLORADO EXPRESS
## A NEW TRAIN

From June 4th the Burlington Route puts into its passenger service for the Far West Louis to Denver, learing St. Louis at 2:05 P. night en route Denver at 6:20 P. M. One Pintsch lighted equipment, vestibuled sleepers and the Burlington's famous chair-cars (seats free).
Travelers arriving in St. Louis in the morning have several hours stop-over privilege.
This is the middle way, the scenic way, to the Pacific Coas
For details ask
For details ask your ticket agent or
W. Mr. SHAW,
$\begin{array}{ll}\text { Div. Pass'r Agt., W. WAKELET, } & \text { Gen'l Pass'r Agt., } \\ \text { 406 Vine St., } & \text { St. Lours, Mo. }\end{array}$
Cincinaliti, Ohio.
HOWARD Elliott
Gow ARD ELLIOTT


## RIFE HYODAULIC ENGINE

Brook water used to pump spring water Absolute Guarantee.
Cour Money Back if You Want It.

SALESMEN WANTED

E. L. GROSS, Tampa, Florida.

ASTHMA Aundibr-iener femedy t. ANVASSRS $=\mathrm{Em}$ OIN CASH

## 



COES ECTEMA CURE Laso



NEW NATIONAL HYMN My country, 'tis of thee,
sweet land of pensions fee Of thee I sing
Land where war told the tale; Land where the heef was stale: Land where the war-generals rail

Oh, hear me rise and shout
Oh. hear me rise and shout:
"Thank hearen. I'm mustered (That's what I sing!) Fighting on sea and shore
Erer for me is $0^{\circ}$
Bullets and heef no more:-
-Frank L. Stanton. in Atlanta Constitution

## TWO IMM:GRANTS

Aral he court-house to receire the rights Vame the
said the judge.
The applicant seratched his head. "I can't just place it, judge." he said; "hut tell you when you strike it."
"Is it Chicago?" asked the jndge
"Is it St. Louis?"
-Is it Indiana?"
"Is it Arizona?"
"Is it Tashington?"
The candidate looked puzzied; he hesitated ain't th' place it's a dnm close shot. He gor mis papers. Another candidate was hrought in hy a "Let me see what you know ahout geography," said the jndge. "Supposing yon and
Mr." Blank walked straight down to the lake and started across it, going due north, where would you land?
on the hottom," said the candidate He got his papers, too.-Cleveland Plain vealer.

## MARRYING A MAN

It was in a Dulnth court, and the witness was a swede, who was perhaps not so stupid The cross-examining attornes was a smart oung man, whose ohject was to disconcert "What did sou say sour name was?" was the first question.

- Yahn".-very deliberately-"Peterson. "John Peterson, eh? Old man Peter's son,
I suppose, Well, John, where do oun live?" "Where $\Delta \mathrm{h}$ live? In Dutut'." " fully. Are you a married man?
"dh tauk so. Ah was uarried.
"So you think because you got married you
are a married man, do you? That's fnnnry Now tell the gentlemen of this exceptionally. intelifeut jurs who yon married." ... ©o Ah marrled: Ah married a woman." than to trife mith this court? What do vou mean, sir? You married a moman? Of course
yon uarried a wouman. Did rou ever hear of Yon one marrying a man?",

PARAGRAPH POINTERS FOR PROGRESSIVE PARENTS
If a boy.

1. Don't talk about the foot-hall nlne. You
show rourt ignorance aud incur your hor's show your ignorance aud incur your hor's
disdaln. Better ask hill if hls allomance is disslain. Bett
large enough.
$\qquad$ torlan is in his ciass. Youl may interrupt
soure vaiuable fort-ball inforination; and the chances are that he doesn't buow, anywar.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
watch which was his hirthdar present. Yo ill he privileged to get that out later i. At the end of the racation give your bo oo advice for the coming term. Give him heck instead. He If reme giri.
2. Don't taik at all. She 'll do it all: an 1. Don't taik at all. She ll do it all: and
more, too. You will find the tro principal subjects to he dress and culture. I wouldn. attempt the latter. Let the mother fight it out along the line of the former.
3. Nerer ask your daughter who the most popular girl in college is, hecause she prob bly bates her. Ask tho the brainy one is. you see, the hrains kind are safe with men around.
4. On no account mention domestic happenings. If you have, a new cook, or sour maid has eloped with the iceman, rou only mildy interest the college girl. Talk the Greek drama, or 4. Down down Fred Jenkins

Don the when rour doughter has llege friend in the honse. Instead, call for Chopin sonata after dinner, if sou hear he's mnsical. If she isn't, be thankful, an hew preserred ginger.
or a "nice little sour girl's friend "pret pressed you as possessing tremendous reserv-
force."
6. Should the hills, resulting from daughter's racation exploits in shopping, reach rou at the hreakfast-tahle, don't open them. When rou get where you can expres yourself in untrammeled figures of speech, ou mar comment. You will par them promptly, after reflecting that she has your ife's hacking. Also, nerer asb her if ther' right." Jnst par them.
T. Let sour wife gire all the adrice when rour girl leares for college. The hest rou can Don't venture on chewing-gum unless rou are certain what flaror she likes.-Larkin Mead, in Puck.

## REMEMBERING THE SABBATH

 "Had it no heen the Sahbath day," said a preachin's," "I monld just have asked se hom he hay was selling in Perth on Frida. "Well, sir," replied the elder, "had it no been the dar it is I wad jest hae tell it re as guan at a shilling the stane"Indeed! Mell, had it been Mondar instea of the Sahbath I would have told you I have "Lmph. ar.
Cmph. ar, ou ar, sir. And had it heen tell it re I wad gie re the market price for

The elder's carts were at the manse earl on Mondar morning, and the preacher's ha stack ranished like a highland mist.

## LITTLE BITS

"Tell, I ought to know mes orn mind! "Certainly: Tou try to hare it diffe
from anyhody else's."-Detroit Journal.
"I think I knor" nor:" said the soldier, Wh was making a determined effort to masticat his first ratiou of army heef, "what peopl mean when they talk ahout the sinems of

Teacher (to class)-"What is a good definiiou of the mord clie Bright hos-"A lie is an abomination to the Lord, and a very present help in time of trouhie."
Sundar-school teacher-"What is the lesson re are to draw from this war with Spain? Littie Whlir Wickiemerer-"There ain't no lesson."-Clereiand Leader.
A New York woman hecame deifrlous whll looking in the windows of rulilinery-stores an mare a close ohserver of such thing sili turn any pasing that a display mindor
ost. haln convicts to thelr wheelbarrows
chell, Farriet, you kow rery well rou' fraid the neighhors rould blon about it." Dalis Record.
 caslonaliy but for one thing
Japily- "It almays gives ne the courage to aill on the very people that I don't want to She-"A doctor in Berlin, after a great dea lve longer than hachelors:

She (jozously)-"Oh, 'larence, how did rou

## W AND STYLISH <br> НАММОСК

 For 1890FREE
This Handsome Hammock given FREE for a club of EIGHT yearly subscribers to Farm and Fireside. See shipping directions below. You can easily make up a club of eight subscribers in one afternoon.

Has an easy pillow, to rest your weary head. Beautiful drapery on the sides. Is closely woven, in bright colors Every Hammock has the new and improved steel spreader, reinforced with grooved wood. Is stylish, and so well made that it is offered on its merits.

## GIVEN FREE FOR A CLUB OF EIGHT. YEARLY

 SUBSCRIBERS TO THE FARM AND FIRESIDEWe will send Farm and Fireside the remainder of
this year and this new and stylish Hammock for

SHIPPING DIRECTIONS-The Hammock must be sent by express, charges to be paid by the receiver in each case. When packed ready for shipping it weighs six pounds. Be sure to give express office if different from your post-office address.

NOTE-Thirty cents is the clubbing price for yearly subscriptions to the Farm aud Fireside without a premium to the subscriber. But members of clubs may accept any of the premium offers and their names can be counted in clubs just the same. Renewal and new names, including a club-raiser's own suhscription, can he counted in clubs.

Address Farm and fireside, Springfield, Ohio

## LET'S LAUGH

One of the Funniest of Funny Books

"Samantha Among the Brethren"

## By JOSIAH ALLEN'S WIFE

"Samantha Among the Brethren; or, The Upholdin' of the Meetin'-house" was rritten to exhibit the comic side of the men's argument acramst women a-settin" on the conference," and she does it to perfection. Bishop. Awman says of it, "t of 'Josiah Allen's Wife.", Samantha's gossip about the "doin's" of Josiah and her neighbors and the tribulations of the women-folks in raising money with which
to paper the meeting-house are rery funny. to paper the meeting-house are rery funny:
Orer 100,000 copies of this book, in expensive binding, were sold for $\$ 2.50$ a copy. We here offer a special premium edition, in handsome paper cover,
erery word and every picture the same as in the s?.50 edition. Size of each page, $\frac{1}{2}$ by 21 inches. Order by Premiun No. 5.

We will send Farm and Fireside one year and 25 certs
"Samantha Among the Brethren" for only... Poutaze onld bs us Address FARM AND FIRESIDE, Springfield, Ohio

# JULY 15, 1899 <br> THE FARM AND FIRESIDE <br> TW0 G00D B00KS FREE 



We live in a Book age! Improved machinery makes it possible to now print valuable books at only a small fraction of the expense necessary a few years back. The following list includes some of the best productions of famous authors, works that are popular because of merit. Every household should possess at least a few of these good books. and our liberal offer makes it possible to obtain them free. We make no profit on the books. Our object is to increase our list of subscribers for Farm and Fireside, the most popular farm journal published.

THE CHOICE OF ANY TWO OF THE FOLLOWING BOOKS FREE TO ALL WHO ACCEPT THE ABOVE OFFER

## ANECDOTES OF THE REBELLION

 Stories and grand collection of war anecdote is a true story of some incident connected with the Civil war Every one will be glad to own this speaker can keep an audience in laughter or tears at will. It gives anecdotes of Foragers, Raiders, Scouts, ecdotes of oragers, Raide, Union and Confederate Spies, of the Generals,
HER ONLY SIN
Xo.; 889. By Bertha MI. Clay, author of "The Shattered
Idol,", "On Her Wedding Morm,", and other noted books. For stories of love, aderviture, and romare, delightrully
told, replete with stirring incidents that will hold the
the told, replete with stirring incidents, that will hold the
reader from the beginning to the end, there are few better reader from the beginning to the "Her, Only Sin"" is fine. It is just the novel to read in a single evening, for once you begin you can't lay it down till you know the end.

## A BIRD OF PASSAGE

No. 960 . By Beatrice Harraden, author of "Ships That
pass in the Night," which had a wonderful sale through America and England. Few ladies have written more, is original and interesting.

## THE ARTS OF BEAUTY

No. 952. By Shirley Dare, the most famous American Writer on subjects pertaining to ladies' toilet. This is a
splendid book for girls and women. Gives honest and valuable instructions about making the toilet, keeping

## THORNE'S POULTRY BOOK

No. 965 . A complete and standard guide to the manage-
ment of poultry for domestic use, the markets or exhibiment of poultry tor domestic use, the markets or exhibi the business pay, and the chicken fancier whose taste is
for gay plumage and strange, bright birds. It answers the demand for a book covering the whole ground of breed ing and care of poultry, and at small price. It gives directions for care of hens, chickens, turkeys, ducks, geese guineas, pigeons, etc.; description of poultry diseases and
their remedies, including a complete discussion of fowl cholera, with the most approved methods yet discovered for preventing its ravages. With many illustrations, some

## ON HER WEDDING MORN

No. 990. By. Bertha M. Clay. In the world of fiction
there have been but few characters to whom the sympathies of the reader goes out with more tenderness than Hulda Only Sin," and will be read with the same intensity of feeling, with mingled joy and sadness as the characters in the book have cause for tears or laughter. It is a love-

## GOOD MANNERS

No. 970. Edited by Mrs. MI. W. Baines, A manual of
true politeness, containing chapters on good behavior, recep true poiceness, containing chapters on good behavior, recep.
tions, dinners parties balls leter.w tions, dinners, parties, balls, letter-writing, courtship and
marriage, anniversaries, etiouette in public, customs reardding funerals and mournings, etc. The book contains twenty

THE IDLE THOUGHTS
OF AN IDLE FELLOW


No. 999. By Jerome Jerome. For that common complaint, "the blues," this book is a pleasant and effec
tive cure. Mr. Jerome is sometimes called the "Eng lish Mark Twain," and is certainly one of the best livsome fun. There is not a
dull line in the paragraph is scintillating Who flashes of brilliant wit Who has not, at some time
or another, had "the blues" or been "hard up?", Wh a royal treat read the author's thoughts on these and numer ous other subjects. The "thoughts" wbich fill a book may "icle," as the author terms them, but they certainl

THE CRICKET ON THE HEARTH
No. 953 . By Charles Dickens. This is a simple tale of children. The story opens about dusk, with Mirs. Perrygurgles in the throat, and indulges in vocal snorts.

## THE BATTLE OF LIFE

## TWO GHOST STORIES

## A GOBLIN STORY

OLD MOTHER HUBBARD AND OTHER NURSERY RHYMES AND JINGLES No. .99?. Illustrated. For geuerations these rlyymes
have delighted the cliidren. The conical pictures, the
 fairy stories and short rerses are a mever-ending source
of delight. This is the complete books, contaiuiung one

 Tom, the Piper's Son,' ete.


She went to the barber's,
To get him a wi And when she came He was dancing a jog.

## There are seven more pictures and fourteen rerses similar to the above to the story of "Old Mother Hubbard," The sook contains one hundred and thirty-nine stories and orer books for children in the entire list.

THE COURTSHIP OF WIDOW
BEDOTT AND MR. CRANE
No. 956. If there is any truth in the old saying, "Laugh
and grow" fat," then the Widow Bedott books will help to make lots of fat. Mr. Crane was a neighbor, and a
widower. He frequently called at the Widow's house, and she naturally thought lie was courting her, so she tried to encourage him and get his courage up to the point of pro-
posing. She succeeded, but he asked the Widow for the hand of her daughter, Malissy. Then the Widow saw her predicament, and how slee did storm! If you want a hearty
laugh, try the Widow Bedott books.

## GULLIVER'S TRAVELS

No. 984. Tells the supposed travels and surprising adven-
tures of Lemuel Gulliver into an unexplored past of the tures of Lemuel Gulliver into an unexplored past of the
world, where he met with a race of people no larger than your hand. A great farorite with boys and girls, who like to read books of travel. Illustrated.

## ROBINSON CRUSOE

No. 977. By Daniel Defoe. The life of Crusoe and his man Friday, on a lonely island, has enlisted the sympathy of more boys than the lieroes of any other story, and to-day
it is even more popular than ever before. It satisfies their thirst for adventure without the demoralizing effects com-

JOHN PLOUGHMAN'S PICTURES

publication. This book can be read by
every member of the family over and over with increasing every member of the family over and over with increasing
pleasure and profit, aud every mother who has a son that
must face the temptations of the terrible curse of drink will place a good weapon in his hands when she induces him

## THE SCARLET LETTER

No. $95 \overline{5}$. By Nathaniel Hawthorne, one of the greatest
authors America has produced. It is a romance of intent authors America has produced, It is a romance of intensee
interest, exhibiting Hawthorne's extroordinary imterest, exhibiing Hawthorne's extraordinary power of
mental analysis and graphic description. The entire book is of a high moral character, and can be read with profit
by every member of every family.

AESOP'S FABLES
No. 973 . These fables were written during the glory
of the Greeks, and though old they are even to-day than ever before. Many of the wise sayings that are repeated on all occasions are from these fables, yet not one
out of a thousand know who first wrote them, as "He killed the goose that lays the golden eggs." Fsopus was a as long as any of the "Seren Wise Men of Greece." But the great beauty of these fables lies in the fact that they
 200 of the best fables given in this book, with forty-nine
illustrations and six pages deroted to the life and times of

SHORT STORIES
No. ge9. A book containing a number of short stories
of adventures, which will be eagerly read by boys and girls.
A BARTERED BIRTHRIGHT
No. 986 . By Franklin Fitts. This story tells the struggle
between justice and injustice, in the author's entertaining between justice and injustice, in the author's entertaining
style. A man occupying a promiuent position in a leading style. A man occupying a promiuent position in a leading takes money from the bank. The blane is attached to a young man recently discharged by this man for paring
attention to his daughter. The story ends with a victory attention to his daughter. The story ends with a victory or justice and the offender sighing in vain for squandered

THE MERRY MEN
No. 958. By R. L. Stevenson. When an author's works live after him, they are, as a rule, worth reading. The widely read. "The Merry Men" is a story that rou will OUTDOOR SPORTS
No. 966. A book of games and healthful recreation for outdoor sports of every description, with rules for playing and marking off the grounds, or making the bats, ropes,
balls, etc. It contains forty-four illustrations, showing balls, etc. It contains forty -four illustrations, showing proper positions in swimming, oating, cricket, foot-ball,
dumblbeblls, Indian clubs, etc. Among the many ganes oall, Marbles, Hopscotch, Prisoner's Base, Duck on the Rock, Tops, Flying and Making Kites, Cricket, Shinny, Croquet, Tennis, etc. Oftentiunes bors are at a loss what
to play, but with this book they will always have something

TALMAGE ON PALESTINE



Some of Our War=ships Undergoing Repairs, Etc.

1. Painting the Hull of the New York. The Picture also Shows One of the Great Propellers. 2. The Iowa in Dry-dock. 3. The New York in Dry-dock. 4. Scraping the Bottom of the Iowa.
2. Lowering Thirteen-inch Shells Into the Ammunition-rooms of the Oregon. 6. Repairing the Oregon's Nose.

# From the Wreck of the Maine to the VICTORRES NIIE PMILIPPINES 

Our new book, "Photographic Panorama of Our New Possessions," contains over

## 300 PHOTOGRAPHIC VIEWS

Which are a marrel of scenic beauty, fascinating entertainment and raluable instruction. The more than three hundred photographs reproduced in the book represent an expenditure of a great deal of time and money, while some of them were taken at moments of extreme danger to life. Each page is 8 inches wide by 1 I $1 / \downarrow$ inches long.

## History Told in Pictures $\& * * * * *$

 historical events are painted on the mind, never to be forgotten. The book contains orer 300 riews of picturesque scenes and interesting objects inThe Philippines,' Cuba, Porto Rico and Hawaii


Hawaiian Girls in Holiday Attire

Also numerous fine scenes in the United States associated with the Spanish American war; as, camp pictures, life in the army and on the war-ships, etc.

In the book the illustrations are very much clearer and plainer than can be shown on this page, as they are printed on more costly paper, highly polished.

The reading matter in the book gives a brief, interesting history of the islands, descriptions of the pictures, and information on climate, population, products, commerce, resources, etc., etc., etc., of the Philippines, Porto Rico, Cuba and Hawaii.


It is easy as play to get up clubs of subscribers to the Farm and Fireside and this book at 40 cents. We give valuable premiums free as rewards for getting up clubs. Send for our Premiunn Catalogue. Order by Premium No. +3 and address
FARM AND FIRESIDE, Springfield, Ohio



THE STETHOSCOPE
 HE posibility of associating the rary-
ing thest sound $\begin{aligned} & \text { vith diseased con- } \\ & \text { ditions of the organs with in appealed }\end{aligned}$ opening ne determined to euter to the fullest extent
practicable direction, and his labors opportuity in this years served not merely to establish the
ralue of the new method as an aid to diag nosis, but laid the foundation also for the
science of nuorbid anatomy. In $1 \$ 9919$ Laennec published the results of his labors in a work scientific medicie. is meant, of course, the interrogation of the
chest with the aid of a little instrument Which its originator thought hardly worth Laennec decided to call it the stethoscope, a name which it has ever since retained. oscope, as usually enployed, was modified
and its ralue augmented by a binauricular attachment, and in rery recent sears a furth-
er improvement las been made through aper improvement has been made trough app
plication of the principle of the telephone, but the essentials of auscultation with the
stethoscope erere estabished in much detail
te br Laennee, and the hoooi must always be
his of thus taking one of the longest single steps by which practical medicine has in our
century acauired the right to be considered a rational science. Laennec's effiorts cost
him his life, for he died in 1826 of a l lung
his hest disease acquired in the course of his hospital practice, but even before this his fame was
uniresall, and the ralue of his method had been recognized all over the world. Not long
after, in 1828 , vet another French physician, Piorry, perfected the method of percussion the chest directly, but the finger or a s mat
metal or hard rubber plate held against the chest-mediate perchssion, in short.-Harper's Magazine for June.


Way of measuring the height of a tree There is a story that during the war there
was a river to be lridged and the engincers
solve by simple means some of the problems
which come up in their daily life. They
ma, not be accurate to a hair's breadth, but
me they answer the purpose.
Supposing a wood-chopper in the Maine forest is told to get out a mast for a racht. He nnows that hee must find a tree which
Htraiglit for sixty feet below the branclies straight for sixty feet below the branchies
It would be very troublesone to climb tree
and dueasure them with a tape mieasure, sa he without knowing it, uses practical trig nometry.
He measures off sixty feet in a straight ine from the tree, and then he cuts a pole which when upright iu the ground is exact $y$ as tall as himself. This he plants in the
earth his own length from the end of his ixty feet.
 plants his slx-foot pole perpendicularly fifty-
four feet from the tree. Then he lies down on his back) with his head at the end of the ne, and his feet touching the bottom of the most exactly sisty feet from the ground.

NOT MONEY-SAVERS
No Jew to-day in America has a fortun the first class. In a list of the fifty rich ame. If such a list were extended Jewish hundred, there would be none. The Jews re great traders, no doubt, but the Scotc the Scotch-Irish, the French, the Dutch an he pure Yankee can beat them hollow whe trading is done on a large scale requiring fidence in the integrity of the merchant. N doubt the Jews make a great deal of mone but they are speculators and gamblers and What they make is not always held securely, not in the past generally begun with capital secured by inheritance. Nor have they unil lately inrested in land. They are also liberality to themselves in their living. A Jew, when profits accrue to hin, usually rery generous to himself and to that belongs to him. And many generally their large families. They are money-mak ers, but not money-savers. Every man wh eads this statement will hare knowledge of speaking of an exceptionalindividual hereand there, but am making a general statement. Howerer, I repeat in entire confidence, ther is to-day in Anerica no individual Jew so rith the fifty hat he can rank in wealt stand at the top.-John Gilmer Speed, in Ainslee's for June.

WHEN MARS CAME OUR WAY
"In 1877 Mars was at his nearest to us; near, that is, from an astronomer's point of
view, though really at the enormous distance f the million miles says Mabel Loomis Todd, in the "St. Nicholas." in the sky, among other things, that he is attended by two tiny satellites, never seen before

## Other things have been learned about

 Mars: "For instance, we feel quite sure not more than half as dense as our own, but far better than none, as we can tell by lookmoon, from which air and water have long ince disappeared. And if Mars has air, the has also ice and snow; and there appear to be, as well, areas of water or marsh, thoug less in extent than the land. The northern escope, even showing tints of red and yellow, chiefly dry land, probably desert; while the ray, quite as water 'seas' brown or dull regions of the moon and theas, like the smooth in both, whatever they may beTHE LARGEST FLOWER IN THE WORLD The largest flower in the world, it is said



## "BUCKEYE"

e of its quality. It is the


The Advantages the disc when applied to a drll
the complete opening of he
for receiring the seed. The every requisite of suc
P. P. MAST \& CO. 17 Canal St., Spranc FFIELDo, Phllodelphla, Pa


- $\$ 5.95$ Buys a Man's All-Wool Suit





## 

## 

LARKIN SOAPSAND PREMIUMS.-FACTORY TO FAMILY Send for a beautifu booklet fro.
 Larkin premiums wort
The larkh Soap MEG Co. Lar
and
MARION HARLAND THE FARMERS VOICE
 The Idea Hat Fastener


 $\mathbf{S}^{\text {TEINWAY UPRIGHT PIANO (SECOND HAND) }}$


Cheaper to buy new than repair old -WHY?

$\qquad$
 ribelt prand the racket.


## ey

Vol. XXII. No. 21
THE FARMER OF HOLLAND

E

BY EDHARD A. STELTER r a short trip through Holland eaves indelible impressions. Its redtiled houses peeping from behind the

dikes-Holland's fortresses against the sea-its thousands of canals filled by moving sail-boats, its countless windmills fanned by the air, its quaint church-towers, its pieturesque peasantry, its mellow sky, its huge cheeses-who can ever forget these ${ }^{2 m a s}$
The glimpse of Leyden, where they starved themselves rather than surrender to the Spanish, and where they chose a university rather than freedom from taxation, and igious liberty; a ferr learned lessons of rethey have painted the town Ded where china blue painted the town red and the china blue; a day in Amsterdam, the northern Venice, where they polish diamonds; a glimpse of Schiedam, where they make two hundred varieties of liquors; and bits of glimpses of Edam, Maasdam, and all the othwhat a delight they all-were to the eye! lean- scrupus clean, the cities and lages always look, like chubby, rosy-cheeked babies after their bath.
Twice a week city and country alike clean house; outside and inside, doors, windows, walls, porcelains, furniture, parlor and sta ble are cleaned. You can see the women, short-skirted, white-capped, wooden-shoed climbing onto window sills, sponge in hand, polishing windows, down on the floor scrub bing, or hose in hand squirting the water up to the chimners, polishing brass door-knobs; leanliness," and I pity the men who have to endure house-cleaning twice a week.
But what strikes the agricultural beholder with still greater wonder than this battle with dirt is the constant battle with the sea, the rivers aud the lakes. Holland is lower than the sea, and has been girdled by dikes to keep out the ever-battling enemy. There are thousands of miles of earthworks, and thousands of eyes are fastened watchfully upon them, for the slightest breach in them may cause irreparable damage. The work of strengthening and extending these dikes is forever going on, and the battle between the surging sea and rushing rivers, and the banks of earth and granite never ceases. The land is constantly changing; islands are formed and destrosed. One province is fertilized by overflowing rivers, another is impoverished by settling sands; winds and poves are ever busy changing the eard and transforming the men who struggle with hem.
Once all of Holland was impenetrable arsh or sandy stretches of desert, but the silent, courageous, ingenious Dutchman drained the marshes by his enemy the wind; cut channels through sand-banks and made the water his servant; carried slimy bog to the sandy patches, mised them, made new land and ereated meadows, until the land is flowing at least with milk if not with

Under what difficulties the Hollanders labored no one can understand. They had aeither wood, iron nor stone; just mud and mendous lot pluck. Silently, "deter minedly they labored, fought and conquered This country which had to manufacture it soil, and has to defend every inch 'ef it against the sea, now sends out agricultural products to the value of fifty million dollars
annually. Nearly two million cattle graze
western
AUGUST 1, 1899
2umitrawis
them, which carries off all dirt; their tails are tied to the beam above them; the floo is spotlessly clean, there are no unpleasant odors, and the cows look at you proudly and concescendingly as you are introduced to brushed and waw has a pet name, and and is always ready for company. ter-room is the sanctuary of the but and is "as clean and beatiful as house ple, and as and ple, and as cool as a grotto." The floor in many places is of tiling, flowers grow iu pots in the windows, and everything is cared tuary. Holland butter brings a high price in London, and from the one little province


A Farit Scene in the Netherlands


A Dairyman's Dog-cart
tobacco, churn the butter, pump the water from the marshes; in fact, they do nearly everything on the farm except milk the cows A mill in Holland is regarded as a fortune and a girl who is to receive one as a dowry born with a mill than a pretty face
The Dutch farm is certainly the mode farm; the house is always cheerful, painter reen surrounded by a small gerter full of red fashioned fowers. Mase to the house is the barm, which also contains the cow-house; or, pardon me, the cow's parlor for first of all the animals are immaculately clean. A stream of water runs behind
of Friesland alone sixteen to twenty million pounds of butter are exported annuall
In some provinces the dog plays as great a part as the windmills, and in the cities he pulls loads which seem heavy enough for a horse. Almost universally the milk-cart is pulled by dogs, and coal merchants send their fuel by dog-express.
The Dutch farmer is a silent, stanch fellow, always smoking, going to bed smoking, getting up smoking; and the only place really exempt from the fumes of tohacco is the sacred butter-room. The Dutch women! th, yes! These Dutch women are much orna Ah, jes. These Dutch women are much orna-
mented by strange-looking pins, buttons and
chains, hundreds of dollars' worth of jewelry on neck and fingers, short-skirted and weod en-shoed; with the color of the sky in their eyes, the tint of the rose on their lips, the eyes, the tint of the rose on their lips, the hash of the peach on their cheeks and the shape of the moou in their faces. "And Holland is a chat can't be beat."
Holland is a country which, if once visited lures you until you come again, and when you leave it is always with regret, for a people so strong, so brave, so industrious and so heroic one seldom meets. Among the Euro pean peasantry they are the most intelligen and the most independent, and mar well be proud of their little country, the birthplate of modern science, where liberty was eradle and loved, and where human endur crade intelligence have wrought the great cultural wonders.
$\rightarrow \leftrightarrow \leftarrow$
工 HE Netherlands are largely composed of Sche alluvial deposit of the Meuse, th Scheldt and the Rhine. For countless ages
the soil of France and Germany, buiging up the mainland as the Nile has done in the Mediterranean, and the Mississippi in the Gulf of Mexico. The sea in return east up its dunes and sand bants its dunes and sand-banks. Back of these and behind rivers heaped up from side to side as they straggled on their course, most of the country was a broad morass. Here and there were islands which seemed to float on the surface of the ooze, tracts of brushwood, forests of pine, oak and alder, while tem pestuous lakes filled in the picture. Along the coast appeared a succession of deep bays and gulfs, through which the Northern ocean swept in resistless fury. At length the wearied rivers appear to have given $u_{p}$ the contest, and lost themselyes, wandering helplessly amid the marshes. Then took up the strugale. Little by little the land was rescued; diles chained the the land and curbed lakes were emptied, canals furrowed, an even the soil created
"In this warfare of the elements the brunt of the contest fell on the hollow-land, or Holland. It had no irou-in fact, no metal of any kiud-for tools, and no ston for houses or for dikes. Even wood wa wanting, for the early forests had been de stroyed by tempests. To this country Nature seemed to have denied nearly all her gifts so that, almost disinherited at birth, it stands a vast nopument to the dustry and energy of an indomitable people. From and to end it fortresa, ward agains "On thi path ol
On this patcl of mauufactured earth was realized the boast of Archimedes. The little republic, just come to maturity when America was settled, ranquished and well nigh destroyed the mightiest military power of Europe. Shortly afterward it met the combined forces of Charles II. and Louis NIV. of France. As a colonizer it ranks second to England aloue, reachiug out to Jara, Sumatra, Hindustan, Ceylon, New Holland, Japan, Brazil, Guiana, the Cape of Good Hone, the West Indies, and New York. To-day the waste which the ancients looked on as uninhabitable is among the most fertile, the wealthiest and the most populous regions of the world; its people stand the foremost in Europe for general intellimere and purity of morals "-From "The Puritan in Holland, England and America."

FARM AND FIRESIDE

The Crowell \& Kirkpatrick Co.

147 Kassan Strees
204 Dearborn Street,
Chicago, Ilinois
Suhscriptlons and all business letters may he atl-
dressed to "FARMS AND FIRESIDE," at either one of Suhscriptlons and all business letters may he ad-
dressed ot "FaRs AND FlREsIDE," at either one of
the abore mentioned offices; letters for the Editor

TERMS OF SUBSCRIPTION

One Year $=\quad$ (24 Numhers)
Six Months
50 Cents
30 Cents
The ahore rates include the payment of postage hy
as. All suhscriptions commence with the issue on
press when order is received. press when order is receire
Subscribers receive this paper twice a month, which is twice as often
nals are issued.

## Payment, When sent by mail, should be made in Ex- press or Post-office Joney-orders, Bank Checks or press or Post-office Money-orders, Bank Checks or Drafts. WHEX NEITHER OF THESE CAS BE PRO- OCRED, send the moner in a registered letter. All Drati, send the money in a registered letter. All postmasters are required to register letters whenpostmasters are required erer requested to do so. BANES IN SMALL Towas. <br> Silver. when sent through the mail, should be care- fully wrappet in cloth or strong paper, so as not to <br> postage-stamps will be received in payment for subscriptlons in sums less than one dollar, if for every 25 celts in stamps jou ald one-cent stamp extra, The date on the "yellow lahel" shows the tíme to which each subscruer has paid. Thus: aug99. means Which each subscrreer has paid. Thus: aug99 means that the sulvscription is pald up to August, 1899; sep99, to Saptember, 1899, and so on <br> When money is received. the date will be ghanged within four weeks, which will answer for a receipt. When renewing sour subscriptiou, do not fail to say it is a renewal. If all our subscribers will do this it is a renewal. If all our subseribers will do this, a great deal of trouble will be a voiled. Also ire your name 

The Advertisers in This Paper
We beliere that all the advertisements in this paper
are from reliable firms or husiness men, and do not are from reliable firms or husiness men, and do not
Intentionalls or knowingly insert advertisenents from
and but reliable parties: if subscribers find any of them any but reliable parties; if subscribers find ally of them
to he therrise we shoulld be glad to know it. Always

## 

I- JuLr, 1833 , Commodore Perry with a steamed into one of the harbors of Japan. In March, 1885, a treaty was signed which hroke down the policy of isolation follored hy Japan for more than two centuries, and
opened up her ports to foreign conmerce. opened up her ports to foreign commerce.
Forty-five years ago the armed intervention Forty-five years ago the armed intervention
of the United States brought Japan into the family of modern nations, and since then her progress in Western civilization has
been marvelous. been marvelous.

By new treaties with all the leading coun. tries of the world whieh went into effect
July 17,1899 Jan July 17,1899 , Japan has been raised to the rank of an equal among nations. Outlining
the more important features of the new ar. the more important features of the new ar-
rangement, NIr. Jutaro Komura, the Jap. anese minister in Washington, says:
"The seventeenth of Jult marks the turn.
ing point in the diplomatic history not only ing point in the diplomatic history not only
of Japan, but of the oriental countries in general. It will be the first instance in wihich the Western powers have recognized the
full sorereignty of an oricutal the full sovereignty of an oricintal state. This
action of the cullightitued nations of Europe action of the cullightemed nations of ELErope
and America shows that if any country is ready to assume a full share e in the reviron-
sibility and affairs of the world at larrec sibility and affiriss of the world at large
these old and cullightench powrers are reanly
to admit sucl a country to full to admit such a country to full ermity
among nations. So we regarl tlie advent of thing treaty as a very importain step not only
for Japan, hut for all the nations of the for Japan, hut for all the nations of the
East.

## "To understand the clange it is neceessary to look at the ssytem under the old treatios This was essentially bared on tion principes First, that forceizy residents in Japan slaill First, that foreigir residents in Japan s.s.allity enjoy the privileges of extrateritoriali ty; enjoy the privilicges of extraterrititriality, that is, they should be amenable to he laws and iuriscliction of the  and, zecond, that forceimn residents in tin fipan shall be confined to cortain shall be confined to ertrain open ports, outside of which forceiguere contil lome own property or engage in tratce. The tee sult was, in effect, about fiitecen or sixteen

systems of courts in Japan, for the purpose of trying foreigners who commit offenses in Japan. Furthermore, most of the powers claimed that Japanese laws were not binding quarantine law. While it protected us as quarantine lar. While it protected us as against our own people, yet there was no
protection in the case of an iufected forprotection in the case of an iufected for-
eigu ship. The only exception to this refusal to recognize Japanese law was the United States, which recognized from the first the binding force of the Japanese law "One of the bad effects of this system was that foreign residents had entire immunity from taxation. The Japanese paid all the taxes. All this has now disappeared, and foreigners hare the same privileges as well as the same obligations as the Japanese cit izens, no more and no less. The first step in the new system is to put an end to the foreign citizens were judged by different foreign citizens were
standard from Japanese.
"The second essential thing is the opening of the entire interior of Japan to foreig residents and trade. Until now there have been only fire treaty ports-Yokohama Tagasaki, Kobe, Hakodate and Nigata. In those places foreigners had been able to live, to purchase property and to trade, but out side of there they could not even travel without a special permit. These fire places are an insignificant part of Japan. Henceforth the entire interior of the empire, with its populous cities and inviting fields of in dustry, is thrown open to foreigners. They dustry, is thrown open to foreigners. They may live anywhere, engage in any kind of
business, and will be assured of the same business, and will be assured of the same
protection to life and property that is given to the Japanese.
"In bringing about the new srstem of treaties Japan naturally feels most friendly toward the United States, because she al ways has shown a most sympathetic inter est in Japan's desire to adopt modern methods, and to deal on even terms with the rest of the world. The messages of sev eral of the presidents have spoken in most riendly terms of this matter. And so, as tates hare taken such a friendly interest under the old system, I hope and believ that the United States government and peo ple will take a most friendly interest in the carrying out of the new treaty.'

T
HE following statistics of the railways in HE following statistics of the railways in June 30, 1898, are taken from the advance statement of the "Interstate Commerce Commission:
On June 30,1898 , the total single-track ailtray mileage was $186,396.32$ miles, an in rease during the year of $1,967.85$ miles. Th aggregate length of railray mileage, including all tracks, on the date giveu was 247,532 . 52 , miles, an increase during the jear of 4,088.11 miles.
The number of persons employed by the railways on June 30,1898 , was 874,555 , an increase of 51,082 compared with the number for the prerious year. The number of emplojees on June 30 , 1898, was 956 in excess of excess of the number aggregate amount of wages and salaries paid rluing the year ending June 30 , 1898, to during the year ending June 30,1898 , to
more than ninety-nine per cent of the permore than ninety-nine per cent of the per-
sons on the pay-rolls was $\$ 195,055,618$, an insons on the pay-rolls was $\$ 495,055,618$, an in
crease compared with the preceding year crease compared with the preceding year
of $\$ 29,454,037$. This amount of compensation epresents over sixty per cent of the total nperating expenses of railways, and nearly The annount of their total gross earnings. n. June 30 , 1808 railway capital outstanding ities in the term, $\$ \$ 10,818,55+, 031$, which represents a capital of $\$ 60,343$ for each milc

The aggregate number of passengers car ried during the ycar ending June 30, 1s98, was $501,066,681$, an increase over the precerling year of $11,621,483$. The number of tons of freight carried during the year was
$114,077,576,305$, whieh, compared with the rrevious year, shows the large increase of 18,03s,554,080 tons.
The gross earnings, covering an operated mileage of $184,648.26$ miles, were $\$ 1,247,325$, ,621 , being greater by $\$ 125,235,848$ than for the prececting fiscal year. The operating exof $\$ 65,448,512$ compared with the increase The ineome from with the previous 88190350345 on incre $\$ 99,787,336$ over the preceding year.

The total number of casualties to persons account of railway accidents during the ear ending June 30, 1898, was 47, 141 , of which 0,859 were killed. Of railway employees, 1,958 were killed and 31,761 were injured. f persons classed as trespassers, 4,063 were killed and 4,749 were injured. The number of passengers killed during the rear was 2 , and the number injured was 2,015 . One passenger was ried, and one injured for every 170,141 carried. Ratios based on the number of miles traveled show that $60,512,670$ passen-ger-miles were accomplished for each passenger killed, and $4,543,270$ passenger-miles accomplished for each passenger injured.

$I^{*}$N AN eloquent oration ex-Mayor Matthews, of Boston, recently said:
"While the commercial necessities of the country are a sufficient justification for our intervention in the East, loftier motires are uot absent. We are in actual possession of a considerable part of the Philippine islands; we hold the legal title to the whole of them. Te occupr a position of trust toward their inhabitants. The question is not whether we shall let the Filipinos gor ern themselres, but whether we shall allow a small portion of them to misgorern all the

We have no more right to abandon these islands and their occupants to savage or semi-civilized misrule than Admiral Dewey had to scuttle his ships after the battle of Manila. As trustees we cannot resign.
"The practical duty of the United States, which no amount of historical misinforma tion will enable us honorably to aroid, is to re-establish peace and civil order in the Philippine islands, and to do it at once; and then to formulate a scheme of government for the islands, framed for the sole purpose of promoting the material welfare and political progress of their inhabitants. Prec edents for the administration of some of the islauds may be found in the history of the United States territories; suggestions for the government of others may be offered by the experience of other countries in similar undertakings. The difficulty to be ernment, but in the execution of them.

If we administer the Philippines with the same unselfish purpose which has inspired our territorial policy, introducing our ideas of civil liberty and law wherever they seem applicable, permitting as much o qualifed selgernment as the people seem and improving the dene for the breng the condition of the islands for the benefit of the inhabitants, and only incidentally for our own; if, in short, we keep our minds set on what we can do for
the Filipinos, not on what we can get out of them, then there ought to be no insuperable difficulty in governing our dependencies in the Pacific to the satisfaction of their inhabitants, the honor of our own people and the profit of hoth.
"Many persons seem to fear that the ex tension of the sovereignty of the United States over the Philippine islands, and the adoption of an active policy on the coast of China, will tend to increase the difficul"ies of our domestic policies.
"The instinctive yearning of the people for activity and adventure cannot permanently e repressed; and their unoccupied energies will demand an outlet-territorial or polit ical. As expansion will diminish the eco nomic evils of the future, so the discussion f questions of international intercour oreign commerce and colonial government annot fail to evert a healthy rectiou and steadying, elevating aud invigorating influnce upon the eourse of political controver at home.
"If there ever was a time when the people Who established this country looked forward and their descendants, thal isolation for them since faded acendants, that dream has New England which our buritan ancestor founded, and which our fathers dwelt in, is gone, and gone forever. Its physical appearance, its industrial life and the characte of its population have completely altered. I is useless for us to complain, even if we had
the desire. The change was deliberate. The the desire. The change was delibcrate. The generation which preceded this welcomed
the end of the 'long winter of New England the end of the 'long winter of New England of the railroad and the steanhoat; and the of the railroad and the steamhoat; and the New-Englander took up his historic burden and became again the pioneer.

Wic ean either take the part in the our position, abilities, necessities and the inherited aspirations of the people call for, or we can stand aloof in selfish, timid une ightened isolation, and lot the march of ghtened isolation, and let the march o lobe without us. It is not a quest destiny, but of choice; and if we fail to choose wisely the fault will not be

## "In our stars, <br> "But in ourselves that we are underlings.

The American people never ret have failed on great occasions. They will no now. They will not permit the foreign pol icy of their country to be determined hy considerations based on selfishness or fear.
They will not shirk the duties or lose the They will not shirk the duties or lose the
opportunities which Almighty God has opportunities which Almighty God ha placed before them. They will cross the Pacific. When there, may they act so wisely and so justly by all the great interests com mitted to their care that in after ages the chief annicersaries to be celebrated by the regenerated and grateful populations of Oceanica and China will be those of the ba the of Manila and the Fourth of July

THE figures which were recently given out bs the Treasur Dena the fiscal year ending June 30, 1899, was the largest year of foreign trade in the history o the United States. The total foreign trade exports and imports, was, in money value over $\$ 1,924,500,000$, which exceeded the for eign trade of the preceding year by nearl $17,000,000$. The total exports were $\$ 1,227,443$ 425 , about $\$ 4,000,000$ below those of 1898 , and $\$ 177,000,000$ larger than any other pre ceding year.
The total imports were $\$ 697,077,388$, an ncrease of more than $\$ 81,000,000$ orer the fiscal year of 1898. The increase of imports is largely in sugar and in partly manufac tured articles used in process of manufa turing in this country
The excess of exports over imports for the ear ending June 30 , 1899, was $\$ 530,366,03$ The excess of exports in 1898 was $\$ 615,432$ 676 , and in 1897 it was $\$ 286,263,144$.
The excess of exports, or so-called balance cal years aggregated over $\$ 1,432,000,000$.

THE expansion of exports of manufactur ers-an increase of nearly $\$ 45,000,000$ did much to make up for the decline in th value of agricultural exports. Of these th greatest falling off in value was in whea and wheat-flour, due to much better grain rops abroad in 1898 than in 1897. However the decline was due to lower prices, not to the quantity exported. The average price for a bushel of wheat exported in the fisca year ending June 30, 1890, was a little less than 75 cents, against 98.3 cents for 1898 The total quantity in hushels of wheat and heat-flour exported was orer $4,500,000$ bushels greater than in the preceding year.

Taken in connection with this years wheat crops both at home and abroad, the last item has a most important hearing on the future of wheat prices. In the twelve months ending with June, 1899, we exported more wheat than in the preceding year smaller. estimates no country in Europe heports and a. wheat in Pusi a do rease Th Rissia alone heing $120,000,000$ hu*hels. The present wheat crop of the United States is far below that of last year. The estimates for both years vary consirlerably, but the yield is at least $150,000,000$ bu*hels less than last year. In brief, our crop is smaller and
Europe needs more of it. The statistics are all on the side of advanciur prices During the past fiscal year we sent abroadi nearly $222,000,000$ hushels of wheat, flour included, at a yearly average export price of nearly 75 cents a bushel. The present wheat situation of the world indicates a larger export this year and a higher yearly average export price a bushel.

Uxder the heading, "The First Princi-
ples," the Neir Liv "Sun" ples," the Neir York "Sun" makes this car strike:
"The right to quit work is as indisputahle " the right to work.

The sufficiency of the reasons for quit ing is a question which concerns the quitter. The right of the other man to step in and take the job is likewise indisputable. As long as hoth of these richts spected, the striking labor and the super


More Health Hints $\begin{aligned} & \text { Accidents will happen, } \\ & \text { especially where there }\end{aligned}$ are children. People who handle knives, forks, scissors, glass, sharp-edged things of all kinds, boiling water, lamps, hot flats, stoves, etc., must expect to be cut, bruised, burnt or hurt in other ways at times. Injuries of minor importance are a common occurrence in any family, and those of a pen at any time. People are careless, and will continue to be as long as the world is being run on the same old plan. A physician is not always close by or quickly to be reached, and rural people are often obliged to rely on their own devices for awhile. I believe thaty to be prepared for emergencies, and I try to live up to this doctrine. At least there are certain drugs and appliances of which we never (hardly ever) fall to have supply on hand. On the shelf, ready for immediate use, stands a bottle with carbolic acid (crystals), and in a pigeonhole on my desk, always open to the family, may be found a roll of surgeon's rubber adhesive plaster, such as one can purchase, done up in a neat tin case, at any large drug-store for about fifty cents. The piece of plaster is about eight inches wide and a yard long, but what a lot of "patching" any one can do with it! The way the children run to it for a little patch every little while brings more clearly to my knowledge how frequently these trifling injuries that by neglect are liable to assume a more serious characte do occur in a family. The farm help, too,
comes in for a generous share of cuts and comes in for a generous share of cuts and
bruises. In short, there is a lot of skinpatching to be done all the time.

What to Do In the first place we should learn to recognize the fact that nature is the great healer. What we expect
from the plaster, or any application, is to from the plaster, or any application, is to prealing. All our salves and lotions can do little in the way of healing or restoring The only thing we can aim to do by thei use is to keep things out of and away from cuts, burns, sores, etc., and let nature do the
rest. First of all get the brnise or cut rest. First of all get the bruise or cut
thoroughly cleansed and disinfected. The only real danger comes from the germs that may find entrance through the break or abra sion of the skin into the blood and body Among these germs are those of the fatal lockjaw. Get soft water, as hot as can be borne, and add from one to two per cent of carbolic acid. Into this solution hold the bruised part, and thus help to diffuse and disperse the blood that otherwise would coagulate and cause the black and blue spots. If an open wound, wash it out with the car-bolic-acid solution, and finally apply a piece
of the adhesive plaster. Use plaster enough to cover well and hold it on well. Then let the injury take care of itself. Keep the wound thus clean and covered and there will be no "taking cold" in it.

Burns For burns, especially if not severe hesive-plaster covering can also be recommended. My practice, however, is to make a thick paste of common baking-soda (saleratus, bicarbonate of soda) and water, and wind a cloth around it to keep the paste in place for awhile and the injured portion tightly covered. The pain ceases when the air is kept from the burned surface. After awhile the soda paste is remored and the severer burns apply quickly a thick covering of saleratus paste, petroleum, butter or oiled cotton, and call a physician.

Stings and Bites Among the minor ills of annoying ones, are the stings of bees, hornets, wasps, the bites of mosquitoes, fleas and various other flying and creeping things
Children sometimes suffer a good deal from that source, and often the affliction, through that source, and ofteng, itching, etc., becomes almost unbearable. In strong ammonia we have perhaps the best remedy for these troubles, and I always have a bottle of it on a shelf in the kitchen. I buy it in one of the large drug-stores, and pay from twenty-five to
thirty-five cents for a pint of ammonia of twenty-two to twenty-six degrees B. strength

Keep it tightly corked all the time. It is liable to eat an ordinary cork, and if open will soon lose its strength. Put a little of it on a wet
rag and apply to the bee-sting or mosquitobite. It usually gives almost instant relief

A Water Cure I am not cranky enough on that water in itself is a cure-all. I even fear the fresh water from most wells when used as a beverage. Typlioid fever lurks in many wells, and I prefer to avoid unnecessary risks. Boiled water, such as hot lemonade or hot water flavored or medicated in any sensible way, is always safe, and I believe has great medicinal virtues. I am convinced that rleumatic and other poisons can be washed out of the blood by the free use of fore each meal. The water will do no harm; it may do good. It often relieves or cures dyspepsia. The acid of the lemon helps to cleanse the stomach walls and to stimulate liver action. Don't imagine, however, that liver action. Don't imagine, however, that lemonade, taken at long intervals, will do remarkable things for you. You must not expect wonders. Take your pint or hal pint regularly before each meal right along,
day after day, week after week, month after day after day, week after week, month after
month. It is worth a trial. Your dyspepsia month. It is worth a trial. Your dyspepsia short period of such treatment. Be persistent in it.

In the Swim Water is also a good thing for I like to take exterior use. In hot weather prefer a large body of water for it. An comes a swim in the surf of a large lake or comes a swim in the surf of a large lake or never right after dinner or supper. If you hever right after dinner or supper. If you take time to thoroughly cool off before goine times the use of a life-preserver will help you to learn how, and at any rate make you feel safe and comfortable in the water. Only a minority of people, however, enjoy water privileges of this kind. The great majority live too far away from larger bodies of water to take their daily swim or bath. But every body might have at least a wash in a tank or tub. All modern houses are built to contain a bath-room. In the colder seasons I like to take an occasional wash in plenty of quite warm water, and to wind up by sponging of with cold water to which a little ammonia
has been added. It is a refreshing and health-giving procedure.

Finally I feel like saying a good word for the rapor-bath cabinet. Free perspiration is one of the ways by which the body ejects a lot of waste materials which, if they were to remain, would act as poisons in the blood. I do know that free sweating purifies my blood. A good vapor-bath cabinet with alco hol-lamp, etc., can now be bought quite cheaply. I bought one (as advertised) for $\$ 5.00$, and I think I got my money's worth Directions how to use it go with the cabinet and may safely be followed. On the other hand, I find very little good from electrical treatment and believe that electricity as curative agent is frequently overrated.
T. Greiner.

## SALIENT FARM NOTES

Second Crops When such garden truck as removed, as they should be when past their prime, I plant the ground they occupied with sweet corn to catch the fertility which would otherwise go into weeds or be entirely wasted. It does not pay to let a foot of ground lie idle and bare, or to grow a crop of worthless weeds; and unless one has something of value growing on the land he is very apt to let the weeds take it. Any of the earlier varieties of sweet corn planted as late as this will make lots of excellent cow or pig feed before frost, while the land upon which it grows will really be benefited by it. Nothing about the farm gives it a more woefnl, neglected appearance than a garden overrun by weeds. If you have no sweet-con seed plant millet Anything or sow buckwheat or than and that is useful is beter then will make the garden look neat, tidy and at tractive.

Apple-borers The excellent, refreshing sauce that early apples now make reminds me that now is the time to look orer the trees for borers. Don't le these pests destroy the trees after you har grown them to bearing age and are just be-
ginning to get paid for rour trouble. Look ginning to get paid for your trouble. Look
closely and carefully on the ground close closely and carefully on the ground close
about the base of each tree, and if there is a borer at work in it his castings, which resemble sawdust, will be seen and he can be located in a moment. All the tools needed are a knife and a short piece of broom-wire If one has to cut much of a gash to get the pest out it is a good idea to pack it with grafting-wax. If one has none on hand it is a good plan to bank the earth up about the tree so as to cover and protect the wound. One can usually get a borer without much cutting by running the wire along his tunnel. When one punches the stuffing out of him the end of the wire puncher will show it, being covered with said stuffing.

## Summer 0utings

I notice in some of my
papers that the of
Banker Percent, the daughters of Lawyer Legal and the son of Merchant Trade have all gone to Mackinac or some other summer resort, presumably in search of health or pleasure. They did look rather pale and somewhat fagged the last time I saw them, and fresh air and sunshine will do them good. There was a time when I thonght that people who could go "summering" were the most favored of all humanity and got
more than a fair share of the good things of life. But the opportunity came for me to go to some of these places and see them in their glory, chasing after health and pleasure at $\$ 1$ to $\$ 5$ a chase, and I very soon decided dant, the catching was not "in it," as the thoughtless say.

At the most noted resorts all was noise and din and rush and roar. Hackmen, hucksters, fakirs and show people were bawling and calling on every hand, while the hotelrunner and the boarding-house solicitor were very much in evidence. I failed utterly to see where or how anybody was getting and ${ }^{2}$ and frippery at the high-priced hotels. When I sought the quieter places of less note Ifound people suffering with ennui and wishing they had gone somewhere else, and getting about as much rest and pleasure as an active boy would shut up in an empty eight by ten room. The only people who were actually having a good time were the parties of ten to twenty-five, relatives and friends, coming from one town or neighborhood. They came for pleasure and to see the sights, and so many being together they were practically inmany being together thendent of all outsiders for rollicking fun, dependent of all outsiders for rollicking fun, while they got reduced rates on everything.
When one of these parties came down on When one of these parties came down on
one of the quiet resorts in the back districts one of the quiet resorts in the bere greeted with as much delight by host and guests as a circus is greeted by the children of a small village.

My observations at both the popular and quieter summer resorts of the North fully satisfied me that the only way to have a good time at any of them is to go in a party of not less than fifteen neighbors and friends, each determined to sink personalities and have a real jolly good time. Such parties can get reduced rates from railroads, hotels and everything else, and their outing will be something to be remembered with pleasure while they live. They should elect a committee of three directors before they start, all bills and decide all questions. The most successful parties I ever met were thus man
aged, and they invariably got full value for aged, and they invariabl
every dollar they spent.

But to come back home, many of us are in debt, or our crops were too short last year to enable us to take much of an outing, so we must make the best of our surroundings The life of a farmer is not like that of merchant, banker or lawyer. He is in the fresh air all the time, while he can, if h will, have the best and freshest of all that grows in his latitude on his table at all times And if he does not overwork or expose him self too much he may be as healthy as any man living. Still he needs an outing, change of associations and surroundings, for a short time. They serve to brush the cobwebs off his brain and broaden his views of life, make him more liberal in his ideas and give him something new to think about-a change that is refreshing and invigorating. I think it makes of him a better farmer, and
inclines him to improve and beautify his home and farm more than he otherwise would.
Farmers* institutes and agricultural fairs are all right in their way, and all farmers who desire to keep in the front ranks will attend as many of them as he can; but, as a friend of mine said, "It's the same old thing. They wear a fellow out." They are simply schools of instruction, and attending school is not having an outing. To have an enjor able outing, a brain-rester, one must leave the farm and all its cares behind. He must set out to be a boy again, and get all the pleasure he can out of everything that comes along. He inust drop shop, forget the soil kick up his heels and yell! A short railroad trip to a river or lake and a few days' camping with a few neighbors costs but little, yet it gives one a chance to expand his lungs, shake up his liver, live on tough fare, laugh and yell as loud as he can, sing old ballads and fight mosquitoes and upset hornets' nests.

The wife of a farmer needs an outing more than he does, and it would surprise her to have him courting her and smiling and smirking as he did when he wore un comfortable clothes and came every Sunday night to see her. She would enjoy a short outing away from the chickens, churn and broom as much as he, and it would give he new life, new energy and make her feel that she is not a slave to the everlasting grind of farm-house work. As I said, such an outing would cost but little, while its benefits would be incalculable. It is hardly worth while to wait until we can afford to have a good big outing away off in some other state. That time may never come. I think it would be better to have several little inexpensive pic nics as we go along. We will enjoy them more, and they will do us more good. We shall come home feeling more like we were working to live than living to work. Almos any farmer can spare a few days this month for an outing; get together and take it. You will enjoy it more than the Fourth of July or Christmas-more than twin calves or nineteen cents a dozen for eggs.

Fred Grundy

## UTILIZING THE WASTE PLACES

## fields was a mod

 an acre, and brook. The farmer believed in utilizing the waste places and making every part of the farm contribute to the general purpose The spring froin which came the brook could not be interfered with because it pro duced excellent water and was worth more than anything that could be grown in the meadow, for after passing through the swamp it ran into a trough in the pasture where the cattle had access to it.There were several ways of improving this meadow and of giving the water from the spring uninterrupted flow, but all were costly except the one decided upon. He made a cranberry bog of the meadow. It made a cranberry bog of the meadow. It costs about three hundred dollars an acre
to make a good bog, but it pays. Several things are necessary, and one of them is facility for flooding in the fall to prevent damage by early frosts. In this bit of meadow the farmer raised cranberries as large as cherries, always welcome to any table, and always in demand in the market, especially when sugar is low. Wherever there is a perm that has neither) there are usually moist, untillable places, but exactly adapted to cranberry culture. Put in a few cranberry-plants, for crauberry sauce is sauce for anything. It is more than sance; it is food, and may be just the medicine the system needs. George Appleton.

## RYE AS A GREEN CROP

While nitrogen is the fertilizing element most easily lost from manures and soils, it is the most expensive, costing almost three times as much a pound as potash and phosphoric acid. The readiness with which nitrates are washed out of the soil during heavy rains when the ground is thawed suggests that during the period of such rains it should be covered which will feed upon the nitrates formed and store nitrogen in its tissues. For this purpose rye is an excellent crop For this much used. While it adds no nitroand is much used. to soil which is not already found gen to the sorimson clover does, it is a much surer catch than the latter, and is thorough surer catch than the latter, and it forms quite a root system during the fall, starts off early in the spring


## OUR FARM

FARM THEORY AND PRACTICE he Deal-plrpose Cotr.--The lead. ing editorial correspondent of an Eastern farm journal says: of-all-trades man, and do not want any Jack-of-all-trades cattle on the farm." He
proceeds to relate his experience in trying proceeds to relate his experience in trying
to procure a profitable milking strain of Shorthorns. He consulted with a noted breeder, was told what strain was best, and
secured tiro heifers and a bull at a long price. The result, as he states it, was that one heifer did not breed at all, the other required the assistance of one of this gentleman's pet Jerseys in raising a calf,
and the caftlegrazers of the neighborhood would not give a dollar for the serrice of the bull. The male calres of this sire were given alray to the farmers. On such experithe farmer should select a breed wholly for butter production or wholly for be
duction. Let us look into the facts.
Ans. man of experience knows that this
gentleman was either rery unlucky with the gentleman was either rery unlucky with the
animals bought or else was the rictim of a confidence game. It is folly to undertake to give the impression that there are not
strains of Shorthorns and of other beef breeds that produce immense amounts of milk and butter. The records of the corrs owners settle that point. This writer may have lacked judgment in selection, but his experience is utterls ralueless as proof that have been imposed upon the readers of his paper as a sort of proof.

The gentleman I hare quoted assumes that farmers are wanting only beef or only milk and butter. This is the assumption of most advocates of the milk breeds, but it is a farmers do want only milk, and the cow is a. machine for the oroduction of that artiato-
and in the farm press. The most of the country needs better calres for grazing, an milking strains of large breeds should fur-
nish them. The Jersey is all right in her place, but that place has its rery distinct limitations.
There are butter-cows for the great butter producing districts, and there are milk and cheese corrs for other extensive districts, and breeds for a territory three times as great as the special dairy districts. This territory is occupied bs men engaged in dirersified farming, and the cows that are kept should

pay a profit from the milk while producing and feeding in limited budy needed for grazing and feeding in limited number on nearly hal our farms. The scarcity of good feeders is
notorious in recent years. The fields that should be producing grass and grain for them are placed under the plow, and the products are sold off the farms, simply because the farmers are not, and should not be, extensire dairymen, and the calves for profitable graz ing cannot be had. There is room for the dairy breeds where ther belong, and the attempt to supplant larger breeds with these special-purpose breeds in accordance with theors that does not take into account the conditions that prevail where dirersified farming and stock-groming are practised a great mistate. Until all farmers become a great mistake. Until all farmers become possible - a condill be the possible-there will be a need for a genera purpose cow and a general-purpose horse
"Chemicals and Cow."-Under this cap tion a leading writer says: "I can remember the time when these fertilizer farmer
 that the question of fertilization hinged


The Otster-shell Bark-locse (Jytitaspis pomonum) entral aspect of female scale, enlarged, shoming wintering eggs
b , same from above; © , twig corered with female scales, natural
size; $d$, male scale; wholls upon the willing ness of the farmer to
apply the needed plantfood in the form of commercial fertilizers. En-
thusiasts are apt to go too thusiasts are apt to go too
far in their claims for anything comparatirely nem Local conditions are the controlling factor all the
time. It has been learned that the soil must have humus in it. The Eastern farmer converts his coarse stuff into manure through the agency of the cow Some W-estern farmers afford to leare some of the stuff on the land unhar ested, turning it under for humus. There are few laws of universal applica tion in farm management The dairyman mas need his Jersey or Holstein, the Eastern truck-farmer may need a few cows to con sume clorer, corn-stalks and regetables, the West erner may need a purel
sought. The amount of butter-fat produced uch districts the fine-spun theories of our theorists work to a nicety. But it is a safe assertion that three fourths of our farmers for two distinct purposes, and thew undertand those needs rery thoroughly. Dairying dairymen-and neither are they extensive eeders of beef-cattle. They grow grain and some vegctables; they have some pasture-
land, and some cows are kept for the double purpose of furnisling income from
milk or butter while consuming the produce of the farm and of furnishing some calves wanted for grazing and feeding, and cannot re wanted to convert grain, corn fodder and clover hay into butter at a profit. Such
dairies exist all over this country, though not in the number they should, simply beinfluence through constant labor at institutes
beef breed, and the ordi-
narily successful diversified farmer of the central states may need cows that can produce both butter and good calres. The adrice suitable only to special districts and to individual farmers peculiarly situated for some reason. The successful man is the on who studies all inethods carefully, and then inses his own judgment in adapting or mod fying according to his circumstances David
THE PROBLEM OF PURE FOOD
There ought to be no problem about it. acres producing everything which human sible to lave upon the table, in the poorest the purest of foods that Nature can bestow, But the problem is with us; that we know. Official reports from the Department of Ag riculture at Washington show that flour and matter to increase their weight, and alum to
mprore their physical appearance, while the seeds of rarious weeds are used to cheapen them. Spices are cheapened by the use of wheat-flour, potato-flour, linseed-meal, gypsum and clay to increase weight, and radish, rape, ground corn, rice, pea-flour, buckwheathulls, cocoanut-shells, olive-stones, sawdust, clore-stems, sago-flour, arrowroot, ground crackers, red ocher and sandalwood are used to keep up the bulk. Cream of tartar often coutains calcium sulphate, calcium carbonate, alum, acid phosphate of calcium and starch, while baking-powders are rarels pure. .Vinegar is frequently diluted with water and also contains at times numerous mineral acids.
yster-shell barb-louse occurs on a wide rariety of food-plants, but is most commonly
found on apple. It may be recognized by the rather striking resemblance which the female scales-as indicated by their common name bear to an elongated oyster-shell. This in sect was probably imported from Europe on nursery stock by the early settlers of this country, as it was known there during the last century, and has since then spread throughout the United States wherever ap ples and pears are grown, being more com mon in the North than in the South. The life history of this species differs from that of the San Jose scale in haring an egg stage; the soung of the latter being born alive without an egg. If the female scales are amined during the winter, under the anshrumb bodr of the female, while behi shrumken bodf of the fenale, while behin this a mass of sellowish-white eggs fill up the remainder of the scale, from forty to eighty-fire occurring under a single scale. In the northeastern states these eggs hatch during late May or early :June. The young do not trarel far, soon settling down upon a young twig and thrusting their small beaks into the bark, after which the females lose all power of motion, though after a time the males have a winged stage. Though numerous specimens may be found upon the branches and trunk, the twigs are the only parts of the tree ever injured by this in and very rarels, if ever, do they occur on th leaves or fruit. After becoming fixed in its position the female molts twice, these two skins remaining in an orerlapping position on the anterior part of the scale, which is rax-like substance secreted mainly from the hinder part of the bods. After laying he


Scurfy Bark-Lotse (Chionaspis furfurus) males on $t$ rig; $b$, males on trig, both natura
size; $c, d$, female and male seales enlarged. (After Howard)
ward part of the scale, as already described, and the eggs remain securely incased over and the eggs remain securely incased orer
Tinter, only one brood occurring in a seaminter, only one brood occurring in a sea-
son. The male scale is much smaller than son. The male scale is much smaller than the female and has but one cast skin in its scale. It is much shorter and of a more oral shape than the other sex, and the hinder portion of the scale forms a flap which is so hinged to the main part of the scale as to permit the escape of the adult male; for the full-grown male leares the scale as a winged insect, and lives but a short time after ferti lizing the female.

The scurfy bark-louse is a native species and not quite so rridely distributed as that
 very described, but is found ple, especially in the warmer sections of the country. Its
sesper list of food-plants is hardly as list of food-plants is hardly a
extensive as the previous species, but also ineludes crab apple, quince, black cherry apple, quince, black cherry,
choke-cherry, currant and mountain-ash. The life listory of this species is almos identical with that of the oyster-shell bark-louse. The eggs differ in being of a
purplish-red color, from ten to purplish-red color, from ten to each scale and hatching in the latitude Washington, D. C about the middle of May The female scale is muct: more broadly expanded poste(After Riley) riorly than is that of the former species, and is of a whitish color, giving the bark of the tree a characteristic "scurfy" appearance when thickly covered with them, from which the male seale is very different, being very much smaller, pure white and having nearly parallel sides, and three elongated longitudi nal ridges, one on each side and one in the center.
As the eggs of both of these scales are
rather difficult to kill, the ather difficult to kill, the winter wash
[CONCLEDED or Page 7 of THIS ISSEE]

LNOTES FROM等
ARDEN AND FIELD arge Frcits.-The plan of thinning peaches, plums, pears and even
apples for the purpose of making apples for the purpose of making
these fruits larger and better is coming more and more into vogue and favor with our best growers. Wherever it has been tried the results hare been striking and the peaches which our friend Hale, from Connecticut, who runs those mammoth peach orchards in Georgia, sends to our peach orchards in Georgia, sends to our
summer markets-those beautiful, even-sized Elbertas, etc.-with the stuff with which the Michigan and Niagara county peach-growers flood the commission stores in Buffalo and other near cities-a few fine specimens at
the top of the basket, and the interior and bottom of the basket filled with the rilest kind of trash, small, gnarly, wormy, a lot of stuff that no decent man would offer to
another as a gift. The one class of fruit is another as a gift. The one class of fruit is
the result of severe thinning; the other that of learing the fruit in crowded clusters and strings, just as they grew; and nuany growers are all the happier and more satisfied
the more their trees are overloaded. ifornia has set us a good example for many years. The beautiful, temptingly displayed fruits from that state are given that appearance only by sharp thinning and most scrupulous care in packing. It is the California
growers' only hope and salvation to stick to growers' only hope and salvation to stick to
this plan, for their frnits naturally, when they come to the East after a week's transit across the continent, have not the high
quality and fine flaror that our own fruits quality and fine flavor that our own fruits
possess. Their fruits must look well to sell well. Were the people in California to ship trash-such trash as that with which our nearer growers habitually offend their cuspay the freight. Why is it that so many of our Eastern fruit-producers are so slow to learna lesson and to adopt the methods of their successful Western competitors? All ing, there are peach centers along the lakes, ingr there are peach centers along the lakes,
in Xew York, Michigan, etc., that now seem
e the assuranaee of an enormous coro
suscious fruit. If the growers wish to make the most of their chances this year,
and save their reputation for the future and save their reputation for the future, they must leave all the undersized, trashy
stuff at home, to rot or be fed out, and send none but even-sized, well-dereloped fruit to our markets. The sooner they learn to understand this the better for their own
welfare and proft, and for a wholesome welfare and profit, and
tone of the fruit market.

I hare already mentioned in former years that I thin my Bartlett pears quite severely; in fact, have to thin them if I want to have a chance to sell them with the rest of the peargrowers around here to the canning-houses The buyers are always anxious to contract for the product of orchards in which the in-
dividual fruits average large. They often dividual fruits average large. They often
refuse to buy at any price from orchards where trees are overloaded, and the specimens therefore averaging small. I find
that a few dollars expended for labor in thinning the heavily loaded trees are re turned manifold in the quicker sale and bet ter price secured for the crop that is left.

Thimitige Small Fruits.-But it is not the tree-fruit alone that is made larger and better by thinning. Small fruits are served
the same way. I have had several reminders of it this season. I have two rows of the Splendid strawberry. My friend J. H. Hale, already mentioned, speaks of this in
"American Gardening," last issue, as fol"American Gardening," last issue, as fol-
lows: "Splendid, which is a somewhat old variety of the Crescent type, is a perfectflowering variety that has rough-and-ready
habits of growth that make it valuable to a habits of growth that make it valuable to a productive, fruit only medium size, light scarlet color, very firm and fairly good qual-plant-maker as I know of One row, all ready for the third year's fruiting, was narrowed down to almost a single line of plants, the runners being removed and kept so until fruiting. The other row was allowed to spread and form a mat up to three feet and
more in width. The difference in individual berries, between the one row and the other, was striking during the entire season. While the wide row, although newer bed, gave us the berries of good
medium size (as spoken of by Mr. Hale), the narrow row gave us rery large berries from
start to finish. It was much easier picking,
too; and I hare made up my mind to restrict the plant-making tendencies of the splendid hereafter much more thoronghly than I usually have done, and never allow more usually have done, and n
than a narrow matted row.

The Cuthbert raspberries on my highly manured and mulch-corered soil have fo the past few years made a wonderful growth of cane. I had to keep cutting the young plants down in order to confine them to nar-
row rows, and to nin the new canes in the rows back seto nip the new canes in the that one could pick without the use of a stepladder. The rows are six feet apart, and yet the tops would meet across these spaces. The crop of berries last season was enormous. I counted up nearly four hundred quarts as the season's product of three rows not over one hundred feet long, a yield at acre, and worth four hundred bushels to the acre, and worth, at the price at which I sold
my surplus (eight cents my surplus (eight cents a quart), over one thousand dollars an acre. Last winter was
rather severe on the plantation. In fact, this spring but very few of the plants appeared to show even a sign of life, and I was afraid the whole patch would not give us berries enough for our own use. But the few canes that were left made a strong ing a reasonable quantity of fruit, and the indiridual berries seem to be nearly twice as large as they were last year. They were not small even then.

I am having a similar experience with $m y$ gooseberries. Two rows of various varieties have been standing in an apple orchard where a few years ago they received a ziulch of coarse manure heary enough to choke out all weed growth for a time. The growth of wood for some years was wonderful. So was that of currants in the same rows and
under the same circumstances. The berries ander the same circumstances. The berries
also grew much larger. But after that the patch was neglected; weeds sprang up and were allowed to grow for awhile, and the excess of wood growth was not always as promptly remored as it should have been. The result was and is a decided decrease the case with my Columbus gooseberries. The bushes were again severely pruned last spring, half or possibly two thirds of the new growth being cut out. This, in fact, amounted to a severe thinning of the fruit.
As the roots, however, have an adundance of plant-food, and the heary mulch provides a never-failing supply of moisture even in the driest weather, the plants must expend their energy in some direction, and the consequence is not only the less desirable one of an excessive growth of new canes (which I try to restrict), but also of most vigorous development of foliage in spite of worms, and especially a most remarkable size of the individual berries. It is a pleasure to show visitors this sight of fruit, and all tell me this year that they have never laid their eres on gooseberries of such mammoth size. Yet the bushes have plenty of old wood left, and the canes in places are bent down to the ground under the weight of the fruit. The berries are largest, however, where least in number.

Rain and Rest.-The recent rains have been abundant and most welcome. Yet nothing can be much farther from the trath
than the old saying, "More rain, more rest." Inan the old saying, "More rain, more rest."
I find it quite the reverse ; namely, "More rain, more strain." I had a good lot of rain, more strain. ding, pitching over, etc., and made me a lot of extra work. But that is the least. The rain makes the weeds spring up all over, and turns the patches where cultivation had already been too long neglected on account of pressing work in the hay-field into veritable meadows. It calls for promptaction in setting out cabbage and celery plants, and sowing new patches of radishes, beets, kohlrabi, spinach, endive, lettuce, and other count of the excessively dry weather. In short, right after the rain, or as soon after as the soil has returned to proper working order, is the time to put on extra steam order, is the tarme to pot an extra steam.
For a few days the soil always works so nieely that it is a pleasure to hoe and cultinicely that it is a pleasure to hoe and culti-
rate, and at such times I am usually to be found in one or the other of my gardenfound in one or the other of my garden-
patches early in the morning, and again as patches early in the morning, and again as late as I can see at night. We should always
try to stir the entire surface of our gardenpatches soon after every heavy rain. This will give us the soil mulch that the crops will need during the spell of hot and dry weather which is quite liable to come after
the rain. It will kill the thousands of weeds that spring up all over, and it will stimulate
plant growth wonderfully. In these days I often regret that darkness drives nee out of my garden, and that I cannot keep at it all night. How nice these freshly worked onion-beds and beet and cabbage fields look when attended to in the proper way soo
after a rain!

## IRRIGATED MARKET.GARDEN CROPS

The crops which I have found it the most profitable to irrigate are strawberries, celery and cauliflowers. When the strawberries are to be irrigated I have found it best to plant them in rows two and one half feet apart, and allow sufficient runners to set to make a row of plants sixteen inches wide learing a path fourteen inches wide. In this path I run the water when irrigating appear, and continue until the berries begin appear, and continue until the berries begin
to ripen. I have found it poor economy to irrigate strawberries without placing to irrigate strawberries without placing a
mulch between the rows. I hare had quite mulch between the rows. I have had quite
a long experience in using water in the garden for irrigation, and I get much better results when I use it in connection with th mulch. Nuch less water is needed to keep the ground moist, and the surface does not bake when exposed to the sun, as it will if surface-irrigation is practised and it is not covered with a mulch. The strawberry
beds are weeded, and if there is ient material on the ground to mot suffic plants well, I mow grass and place betwe the rows. I use the grass because it is the most convenient, as it grows in a field near by, and because the berries seem to have a better gloss when mulched with the green grass. I am not able to give a good reason for this, but it is a belief which many grow ers have. The water is poured on the mulch between the rows with the hose. The hose
is attached to the iron pipes that bring the water from the tank to the field.

The water is elerated into the tank from a brook near by with a hydraulic ram. In the tank there is a receptacle for manure covered with wire netting, so the manure will be kept in it and prevented from clog. hundred barrels of water. At one end there is an elevated platform for the manure that
is used in the tank. Several tons of manure are placed on this platform, and about hal a ton is pitched in the tank at one time In a few days, when the water has carried out the most of the available plant-food, this manure is pitched out, used for mulching and the supply renewed from the platform I prefer a mixture of stable manure and poultry manure for using in the tank to make manure-water for the plants. In applying the water care is taken to run it between the rows, and not allow it to come in contact with the foliage of the plants. After the water is applied one can see the foliage change to a dark green, which is fol lowed by a larger growth of plant and fruit. where the berries are grown for a near-by market, for too much water will make the ber ries too soft for shipping to a distant market. The plan of irrigating celery is much the same. The plants are set in double rows, s there is alternate spaces between the rows of twelve and eighteen inches. When the plants are one foot high or more the blanch-ing-boards are set up, boarding the two rows together that are one foot apart, so the two inch space is then boards. The enure other material, and the water is poured on the mulch with the hose. This mulch between the rows of celery is one of the essentials to success where close planting and irrigation is practised. Irrigation causes the formation of roots close to the surface of the ground, and the mulch keeps the roots moist and cool. By mulching and irrigating as described the crop is more than doubled and the rapid growth makes the celery of better quality

The plan of irrigating cauliflowers is the same as with strawberries. Just before the time of heading a mulch is placed between the rows and the manure-water from the tank poured on the mulch. Cauliflowers are not always a sure crop. The time of head ing may come during hot, dry weather, and if because of the drought, the growth is checked, the plants may form only "buttons" Instead of the large white heads we desire Then irrigation is practised. with righ management a crop is insured in spite the conditions of the weather
Another vegetable that I grow for market winter squashes. I prepare the ground
for planting by placing well-rotted manur in the hills, and plant about the time I plant corn. The hills are about six feet apar over the ground the vines begin to ru of the ground with a mulch, and then appl the manure-water around the hills in the same way as with the other crops mentioned. Yery large crops of squashes can be grown in this way, and winter squashes are prof itable if good crops can be grown.
The other crops which we sometimes find it profitable to irrigate are the raspberries and blackberries. A drought very often occurs when these are ripening, which is

Mulching and irrigating make the crops nearly a certainty every year. One may have a irrigating but wigh the us the water he may fail to gct the full benefits from it. From quate a long experience with the use of the water in the market-garden have learned that much better results ar obtained by using the mulch in connection With irrigation, and if this is not possible, the next best thing is to follow the irrigation with cultivation as soon as the ground is sufficiently dry. It is only by having maximum aro ban be cur at any time during their growin season that will shorten the crops.


THE BUFFALO TREE-HOPPER
The buffalo tree-hopper has done much injury to young orchards and other trees during the past few years, and the several inquiries sent into this office suggest this article. Ordinarily the insect is not seen, but peculiar scars are found in the bark which give the twigs a battered appearance. (See Fig. 1.) The injury is done by the insect, as shown by Fig. 2. It is a curious-looking eggs in the juices of the plant, so no poison is

effectire; but in sucking the sap they are not seriously injurious. The worst harm they do is in cutting the slits in the bark, in the doing of which they seem to poison the wood so it does not heal readily. They sel dom cause any harm to large trees, but young trees may be seriously injured by them. The remedies are the removal of the eggs and by jarring the insects onto oiled sheets. The mature insect is about one third of an inch long, green in color, with brown dots. It is rery shy, and quickly jumps a way if frightened.

INQUIRIES ANSWERED
Grape Wine and Vinegar.-N. T., Madisonville, La. The making of good wine is such a complicated matter that you should get some good The Bushberg catalogue is the best treatise on the grape that I know of. It can be had of Bush \& Son, and Meissner. of Bushberg, Missouri, for fifty cents. Besides being a fine treatise on the grape it gives a most excellent chapter on wine making. The making of vinegar from wine is a very simple process. After the grapes are crushed the whole mass is aliowed to ferment outdoors until it becomes rery sour. The juice is then pressed out and stored in clean vats or barrels with the bungs left out and the fermenta-
tion allowed to proceed to the end. During the tion allowed to proceed to the end. During the
process care should be taken to keep out insects and dirt and to use clean barrels that have no bad taste to them. Whisky, alcohol and rinegar barrels are good for this purpose. If the grapes contain much sugar the rinegar will be sour; if
they are immature or for other reasons lack sugar they are immature or for other reasons lack sugar
the vinegar will be "flat." Of late years there has been an increasing demand for unfermenting grape-juice. This is made by crushing the grapes then bringing the whole mass ju the stems and point several times and finally bottling while hot. If properly done, it keeps well and there is a good market for it


BREEDS AND FEED

Aprodcciva fowl must necessarily be
one with a good appetite. The large atural, as large birds require more food than those that are smaller. They also
have a tendency to fatten rery readily, and when once they become fat they remain so on a limited supply of food. This is due to position and preferring to range only on other breeds, not only in appearance, but in disposition. Because a bird is quiet, fattens
rapidly and is always willing to be fed rather than food that it can consume. Actire bird be supposed, as they pick up considerable but as exercise keeps them in condition they The cochin becomes exceedingly fat and remains so, in which condition it lays but
few eggs, and is then classed as an indiffer ent layer, when in reality it is one of the
best all-around breeds known, and would easily demonstrate that fact if more judg the poultryman. It must be kept in riev
that all breeds which fatten readily should have but little grain, while the active breeds may be fed more liberally. Because the
Cochin is a heary feeder is no reason for making the food mostly of fat-forming ma-
terials. If it is allowed more animal food and green or bulky materials it will lay more
than the arerage number of eggs, and will the Cochin is unexcelled, and it is easily kept
where some other breeds cannot be used. distinguishing sick fowls
 ailment may be, for which reason the comb amine in case of sickness. In health the should be of a bright scarlet color. When
the comb looks white or pale or black some thing is wrong; even lice will cause the Then there is a refusal of food the bird are out of condition, as no healthy fowl will less already full. Thirst to a great degree is another sign; and a nerrous, uneass look
is a warning. A sick bird often drinks to excess, especially when attacked by cholera
but again at other times it refuses both food and drink. Sometimes a hen will be moping about with drooping Wings, showing
no other signs of sickness. Thenerer the comb, howerer, does not show a bright be examined and treated immediately. Deay is dangerous to the fowl, for sickness in tain food which it cannot get in confinement, and unless gratifed will show signs of sick-
ness. For this reason a change of food often LEG-WEAKNESS

[^4]SOFT FOOD
Soft food should be of the
will not partake of in any other form. The proper mode is to thoroughly mix the in gredients dry, and then add only enough milk or water to adhere the substances in a somewhat crumbly state, so that the birds bills plastered up. By watching them after eating soft food they will be frequently ob-
served wiping and cleaning their bills. Feed soft food as dry as possible.

LAYERS AND MARKET FOWLS Bear in mind that if you attempt to fatten some of the hens for market you must re-
 or the laying hens will become useless. More sufficient food, and the result is due to a
failure to recognize the fact that a laying faimre to recognize the fact that a laying one intended for market

NOTES FROM CORRESPONDENCE

lowing restoratire is excellent: Take one half a
put two gallons of spring-water to the iron and

$$
\begin{aligned}
& \text { "hen it is then fit for use. The dose for chickens } \\
& \text { is one teaspoonful to one pint of water for them to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { is one teaspoonful to one pint of water for them to } \\
& \text { drink; gire twrice a week, or even thrice, and } \\
& \text { there will be no gapes. Half a teaspoonful of }
\end{aligned}
$$







 ising is recommended as a sure and safe remed
 fully on cheese made of clabber. Crumbs wheat-bread and corn-bread are claimed to be a
perfect remeds. The following has been recom-
mended: Cracked corn (chicken feed) four quarts of coarse wheat-bran. Scald the mea

 for one or two dozen chickens is said to be a cure
For young turkess I have heard a few drops of
with a strong solution of alum. Mr. Berger stated before the New York Farmers' Club that the comof chickens with fresbly wetted Indian-meal, the meal swelling in the stomach. When this food is



Attle of my experience in raising poultry. from Cincinnati, ohio, to Rook Castle county, Ky ,
I thought this a good country for poultry-raising, The first interfcre with my other busines
long on each side, one on the inside of the posts
about two feet from the ground; then nail the floor to them and side up each side and end abore the fioor as high as you want it; but have one side a foot or more higher than the other, to give slope
to the roof; saw off the posts above the siding and nail on the roof; take tin six or eight inches wide, wrap around each post near the fioor, and ils. This prevents rats an Tow small animals from climbing the posts three feet high; use a window-sash for the door, so that a small person can get in and sweep out the house, and to make a runway for the chickens to feet long. It should be made of light boards by is placed up at the door of the coop and the other end on the ground; it is quite steep, but the chick
run up easily. Ventilation should be on the hig side, and there should be a window at the hig side, and there should be a window at the back
end. When hens hatch out and take care of thei chickens it is a good plan to shut them in such a coop as this when they are quite young, as the hen and cbicks and put them into the coop. but always drive them in, and they will soon learn to
go in without driving; when they are all in tak go in rithout driving; mhen they are all in tak
down the runway and close the door. To preven young chicks from haring gapes is to keep them some other dry, comfortable place, until the gras and reeds are all dried off in the morning. Fee $V$-shaped trough made of narrow, thin strips about as wide as a common lath nearly the length to fit the trough, and place a screen orer the next important thing is the food. When chick are hatched the first four days I feed them on hard-boiled eggs chopped fine, then use bolte mixed with hot water. Do not leare the food any finger than they are through eating; feed abou coarse sand where they will get it. When the are four or five weeks old feed them on cornens are confined to a ens are confined to a small pen they must have
$\qquad$
$\qquad$
and the fowls keep thrifty and lay fine through
the winter. I have a warm heu-house and an open
on the south. I place roosts in this shed and close

must roost under the open shed in summer. Ny

## Larson in the neighborbood

## INQUIRIES ANSWERED

Late Pullets.-F. E. R., Egg Harbor, N. J. Writes: "If Hamburg pullets hare been hatc
as late as July, will they lay in Norember?"
Table-fowls.-J. S., Lima, Ohio, writes:
Which of the breeds would you suggest for m lasing qualities?
REPLI:-The colored Dorking or a cross of In
me male with Dorking hens.
Ducks Dying.-E. D. E., Indian Fields, KJ, lose the use of their legs and lay flat on the

## day.

REPLI:-You are probably orerfeeding them, centrated food during the warm season. Tur them on grass and allow no other food.





in solutionder forty. Limed eggs, or those kep easily detected
Redcaps.-R. S. L., Franks, Ill., writes: "Can fou inform me about the Redcap poultry? Do the Plymouth Rocks? Where could I find a market for them this fall or next spring?"
REPLT:-The Redcaps are classed among the Hamburg family, are non-sitters and are prolif combs and lack or hardiness compared witb the to advertise them for salc. They are beautiful in Swollen Eyes.-J. T. B., Joliet, III., writc I have a Plymouth Rock hen which bas laid and
bcen in good health until now, but she has one eye
closed and swollen. Can you tell me what to do with ber so as to save her? I killed one not long fnow if there is a cure." rom overhead, but it is belleved by many that others, there being in such a greater susceptibilit
to the discase, which is really a mild form of roup aseline, used as an ointment, is an excellent a

Fall Grains



POTASH
Potash increases stiffness of stalk ur books tell the rest - sent fre. GERMAN KALI WORKS,

 REDUCES THE COST OF INSURANCE





$C$ WHEL CO
QTEOY, Li.



## WOULD-BE SAN JOSE SCALES

sed against other scale-insects will prove o ont little value against them. Such washes should be used, however, against the young insects upon their hatching from the eggs, as they are easily killed at that time, not settling for some little time after hatching; and even after the scale has commenced to form it is not very dense at first. Kerosene mhale-oil soap should be applied to infested rees early in June, and if done thoroughly one, or at most two, sprayings will be suffic ient to effectually reduce these scales.
The eggs of the common angular-winge katydid are also frequently mistaken for cales, though they are much larger and hicker. They are of a dark ashy color, and are laid along the small twiss and ou the rubs in a reares of trious trees and shrubs in a very claracteristic manner, as hown by the illustration. These insects do due damage in the North, and therefor eed but little consideration by farmers in hat section. In Florida, however, they hav been known to do serious damage to orange spraying the foliage with an arsenite, by collecting the eggs in winter and keeping them confined in a box covered with netting so that the parasites which emerge from them may escape and continne their good work, as there are a number of parasites which destroy a great many of the katydid eggs.
E. DwigHt Suloter

## GOOD FURROWS

No amount of harrowing or after work can entirely overcome the effects of bad plowing to begin with. Plowing is the foundation of the crop to follow. A man who can drop a straight furrow is one who keeps pretty close watch of his plow. He may hold his handles loosely and appear to be plowing very easily and perhaps carelessly, but he is watching every movement of his plow an
shifting the handles slightly one way or the other that the plow may take more or les other that the plow may take more or les
land. The plow, of course, should do the plowing itself, without necessity for the weight, nor to raise it up on its point conweight, nor to raise it up on its point con-
stantly; but nevertheless, plowing need close attention. Intelligent selection should be made of the team which is to plow to gether. The horses' gaits should be even, mpossible to do work well in span. It is walking rapidly and the other lageing be hind constantly, or walking sometimes in and sometimes out of the furrow. The plow
itself is another thing to consider. No one itself is another thing to consider. No one plow is best suited to all kinds of land. A
sharply curved, short, high mold-board will throw the furrow very high and hard and break it up; this is suitable for a stiff clay soil. For smooth, mellow soil, or for plowing sod in the spring, when it is desired to turn the furrow squarely over, a plow with a it turns the furrow smoothly upside down and breaks the furrow the least. The harrowing can be done without dragging out he grass. The Scotch farmers want a plow not entirely over, and they plow a narrower furrow than American farmers. If the beam of the plow is short, bringing the horses near to the point of resistance, the draft will be least; but there should be several links between the beam and the whiffletree, to
allow the horses some lee way when stepping on a mound or into a depression, so that the point of the plow may not be jerked up or Gut E. Mitchell.

## LATE CULTIVATION OF BLACKBERRIES

 Blackberry-growers realize that the black berry is a strong-growing plant, and that it therefore demands large quantities of water. They seek to supply this by thorough plow ing and fining of the soil to a deptli of often twenty inches. Ground so prepared will hold moisture well, especially when given proper surface-cultivation. It is, howerer, a common and serious mistake to disconThe ground has then becn tramper is ord by the pickers, and eraporation is consenuently very rapid. In this dried-out soil the plants quickly ripen up their wood, and when the autumn rains come this prematurely ripened if it attains any size fails to ripen when, count of lack of time to mature. But usually the growth is confined to a swelling of the buas, which, like the sappy canes, areIt is probably owing to this bad treatmen the blackberry have arisen. In order to pre vent this trouble the ground should be given eral cultivations after the berry season

## CARPET.bEETLES

During the summer, the autumn, and also well-heated houses throughout the year an active brown larva a quarter of an incl long and covered with stiff hairs may b He works from underneath, generally follow ing the cracks in the floor, but sometimes eating out irregular holes elsewhere about the house.
The full-grown insect is a tiny black-and white marbled beetle with a red stripe dow the back, and always "plays possum" when disturbed. The beetles appear in greates number in the autumn, soon lay their eggs, which, if conditions are favorable, hatch in
a few days, and the larrae, if provided wwith plenty of food, grow rapidly. If food be scarce, however, they do not necessarily die, more's the pity. They can live for an incredible time upon their own skins which they cast off from time to time. In Europe, from which these creatures originally came, they are not especially troublesome in carpet And in this country where polished floors are laid, or where rugs, mattings and the they have little chance to destroy. But where carpets are down for long periods they devastate
It is no easy matter to control this pest Only thorough war can conquer it when once it has become established in the house. An
annual house-cleaning won't do. One, or at annual house-cleaning won't do. One, or at
most two, rooms should be cleaned at a time and the work perfectly done. The carpet should be removed, beaten and spraye thoroughly with benzine, to kill the insects


## adult; b, larva (After Riley)

The room must be thoroughly swept and dusted, and the dust, etc., burned. The floo should be mopped and washed with hot water, care being taken to reach all cracks. Squirting benzine into cracks around the baseboards and in the floors should also b done. If cracks in the floor be large they may be filled with liquid plaster of Paris, which will solidify. Laying tarred paper under the carpet is good, especially around the edges o the room. If the carpet must be laid at once have it well aired to get rid of the benziue odor, and tack it loosely so that it may be If beetles or larvae be found, lay damp eloths in the suspected places and apply ho sad-irons. Persistence in these rigorou measures is the only hope when once the creatures have taken possession. They seldom appear where carpets are not used

EXTRACTS FROM CORRESPONDENCE From Florida.-It can truthfully be said o Foriua fuat and the two growth an production.
for-Florida thater It can also ve claime can a home be built up for less money than here Hin safe to say that $\$ 300$ will put up a comfortable and church. Alachua county, Florida, is a pro ductive counts. The grains, except wheat, cal he successtuly grown here; so, also, can veg
etables, both Irish and sweet potatoes, and in the fruit line everything that is desired except apple and currants. Strawberries do extremely wel The cost of wood or coal for a winter month in the North will buy wood here for a year. The under signed, an ex-soldier and a pensioner, is now living cbeaper in Florida than he did in Michigan, Indiana. Inlinois, Iowa or California. The reader wit other states in point of making money; money can be made here, but it is not an exception, aud, like other states, it requires money to make it, the amount of capital depending upon the busine Gainesville, Fla

## WALTHAM WATCHES

The best and most reliable timekeepers made in this country or in any other. The "Perfected American Watcb," an illustrated book of interesting information about watches, will be sent upon request. American Waltbam Watcb Co., Waltbam, Mass
 AND PREMIUMS. -FACTORY TO FAMILY
 Larkin premiums worth $\$ 10.00$ each.

HOC CHOLERA PREVENTED AND CURED

Extra choice
Seed Wheat For Sale
 5 to 10 bus. Iots, $\$ 1.10$ per bus.
10 to 20 bus. lots, $\$ 1.00$ per bus. $\begin{gathered}\text { Tippecanoe Cit } \\ \text { Ohio. }\end{gathered}$


FREE


Six Million books issued yearly-Catalogue Free.
AGENTS WANTED

## WANTED AGENTS

 terms cash with order



AGENTS MAKE $\$ 10$ DAILY SELLING NEELY'S


| Premiums), Pan-cake Flour, Spices, Rice, Rolled Oats, Toilet soaps, Perfumes, etc. Write for Termes, Territory and Price-lists. F. H. BLSHWAY flatorivg extract |
| :---: |
|  |  |
|  |  |

RODS ${ }^{\text {sind.SW}}$

RUBBER and Lemathite se sickina. We but our

 Chicago House Wrecking Co. W .3 bHh .

orev 7o eizes and atyles, for drilliag elther deep or


SPANISH NETTLE OIL
For Man and Beast
 it acts like magic. Ssample sent free on appicaspANish NETTLE OIL co.. st. Louis, mo CREAM TESTER, 50 c .
 aecurate than the old il tester. Delivered free
to any address rotecipt of 50 ents. No stamps.
taken. The Scientific Tester Co., oswego, Kan.



 TYPEWRITER HEADQUARTERS


52 Lbs. Best granulated Sugar or $\$ 100$ One hundred bars ivory soap
$\$ 100$
 OPIUM W. $2=$



## 




VETERINARY
$\qquad$

## 


$==\mathbf{z}=$ bair, but before it has arrived at maturity,
called a premature hirth. The distinction is $t$ An aborted calf cannot live; hut in a premature
hirth the calf, if horn alive, may possihly be kept Agalactia and MIoody Milk-Goumg
Calves Dying.-J. F. M., Tillamook, Oregon, Calves Dying.-J. F. ML., Tillamook, Oregon.
Agalactia, or failure to produce milk, aud also
loss of appetite are a necessary consequence of nearly every disease in wbich the process of nutri-
tiou is seriously interfered with; consequently, as
you give no other symptoms, it is utterly impossi-
hle to name the disease your cor is affected with.
Examine your cow more closely, and report again. Concerning the cows giving bloody milk, consult
answer given to B. T. H., Perry, Iowa, iu the preseut issue.-As to your young calves that are
dying, make a post-mortem examination of one
of them, and then give a good description of all of them, and then give a good description of all
the symptoms ohserved during life and of the
morhid changes found after death, and then I A Lame Yrorse.-C. H. T., North Randolph, t. If your horse has heen lame for four or five
sears, the prospect of removing the lameness is
exceedingly slim. A splint-that is, an exostosis on the median splint or small metacarpal hone-
does not cause any lameness, except, perhaps, in tbe beginuing and for a slort time. It is entirely
different if the exostosis is on the lotrer part of the carpal, or knee-joint, for then the morbid
changes, as a rule, extend to the articular surchanges, as a rule, extend to the articular sur-
faces of the hones constituting said joint. If the
morhid changes are not extensive, and limited to tbe articular surfaces of the lower bones, the case
is somewbat analogous to spavin, and a possibility of removing the lameness may not he excluded;
hut where the morhid changes are extensive, extending to the articular surfaces of the npper
rotrs of hones, or of long. standing, as in your Sore Foot.-E. S. H., Normandy, Tenn. The
sore on your cow's foot I suppose is in the cleft hetween the hoofs, and if so, there is rery likely
some loosened horn wbich must be remored-he
cut away with a sharp hoof-knife-hefore any foot this is easy; but if it is on a hind foot you may
find it difficult, and unless the cow is very gentle
you may he compelled to throw her to get it for most cows rery nuch ohject to having a hind
foot lifted up. After all the loose horn has heen
removed and the sore heen thoroughy remored and the sore heen thoroughly cleaned,
moisten some ahsorhent cotton with a mixture of
liquor plumhi subacetatis,


ASTHMA mandiby-fuat Remedy

1

## h

 theter, twice a day.. If this is is done the soree will

It meets every requlrement of a machiue corn.cutter
at a price that places it withln easy reach of every
farmer. Send for catalogue No. s0 and price.
THE FOOS


## SOME BARGAINS Starin Sew Mork.

## RUPTURE

 be in vain. All you can do will be to reduce the
pain the horse is suffering hy proper shoeing. In
such foundered horses the frog is usually strong
and healtby, but the sole is flat, or even convex,
and very sensitive to pressure; hesides this, the
union between sole and wall and the latter itself
are weak, too weak to support the weight of the
animal, therefore shoes hare to he put on which
protect the sensitive sole against injury and pres-
sure, and relieve the wall of a great deal of
the weigbt it has to cary by throwing it upon
the strong and healthy frog. Consequently what
is required is a har-shoe witb a very hroad weh-
hroad enougb to protert a large portion of the hroad enougb to protect a large portion of the
sole, and concare enough on its upper surface
insid inside of the nail-holes not to come in any way in
contact with the sole. Oitside of the nail-boles
the upper surface, of course. the upper surface, of course, must he perfectly
level. With such shoes properly fitted and put on even a badly fouudered horse can do a great
deal of work on a farm, hut must not he used on hard or paved roads or on the streets of a city.
Lame-Farey (?).-J. B. R., Hanford,


SAVE LABOR SCIENTIFIC HORNDUHTER

been thoroughly cleaned, Apply to the sores and
pimples once a day a mixture composed of suh-
acetate of lead, one part, and of olive-oil, three
parts. Tben after a healing has heen effected,
see to it that the horse is well groomed, partic

## ularly in all such places at which sun and moo

## Bloody Milk-Partial Paralysis in <br> Piss.-B. T. H., Perry, Iowa. Bloody milk, as has heen repeatedly stated in these columns,



|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

$\qquad$
$\qquad$


 Mere
Mr.
terd
you

Vining members of the family should not re-
main strangers; besides, papa alwars told ine so much about you and his old home that longed to see both
'm afraid you'll be disappointed; the old farm and I are bo
grimly, half sadly.
need chsense, Cncle Tom. I am sure sou onl young face smiled up into his in such a win some fashion that an answering smile erept its unaccustomed way about his lips-for "I don't see hom any one can help being cheerful in this beautiful country neighborhood," the girl continued; "plenty of room, plenty of fresh air and sunshine. grass like relret to walk npon, fowers and fragrance and bird-songs ererrwhere! Why, Mother Nature is full of rejoicing and doing her best
to make all her children happr. Now, in the to make all her children happs. Now, in the
city it is different; we hare to be happy in spite of the tall, frowning buildings and the cromded quarters and the eager, selfish, jostling spirit which seems somehow to creep
into city life. Of course, there are some beau-
tiful things there, but not this natural charm tiful things there, but not this natural charm and freedom which I lore." And she looked about her in such evident delight th
companion wondered, and remarked:
"I never noticed much about it; perhaps it is because I hare been used to it all my life "Is it possible? Why, it soems to me, Uncle Tom, people living in the country must naturalls be generous and helpful and loring toward each other. If I should do a mean,
selfish thing here I think I should feel rebuked br every bird and flower and growing thing, which each gires of its rery best for the benefit of all who will enjoy them.
Mr. Norton looked at his niece in amaze ment, and, it must be confessed. With a feel ing akin to guilt: such ideas occupied no place in his philosophy and were not altogether if he imagined any personal allusion he ras turned to him with the remark, half smiling, wholly earnest, "You must be a vers good
man, Uncle Tom. My father has often told me what a brare, generous big brother sou were. He told me how. When you were only about ten years of age and he a bit of a fel-
low, both wandered off into the moods one low, both wandered off into the moods one You quite forgot the time, in the excitement of the sport, until twilight began to fall; and find the was. Both trudged on for awhile, until papa's chubby little legs were too tired to go further and the night fell. You were frightened, but would not own it. and as wrap around your little brother. lest he
should be cold. Then he fell asleep with his head in your lap as you sat on the ground, leaning against a big tree, determined to keep awake and on guard all night. And there the searching-party found you both toward morning, safe and fast asleep.
Tom Norton said nothing; he was looking very fixedly at the western horizon and
seemed to be lost in thought. Whatever his emotions, they found no outward expression ". and papa told ge too how And papa told me, too, how once, when he broke through the ice when skating, sou steady hand and quickly tied together, so as to make a rope, all the long neck-scarfs-
comforters, you called them-which the bors wore, and then fastening one end securely to a stake, held the other yourself, and crept out to where he clung, frightened and helpless in the water, to the edge of the broken ice. He said he must surely hare let go before sou reached him if you had not kept encouraging him: 'Hold on tight, Phil. just a little longer. Don't be afraid-I'm coming now-I will pull you out-there, now I have hold of you-
work easy, lad, and we're safe. The ice broke again, and you went in, too, but you clung to the rope and so sared both. You must show me the river
where it all happened."
Still the horizon claimed Tom Norton's at fention. Still he spoke no word: his lips wer which had lightly held the reins over Dobbin's back had tightened.
The sweet roice went
too, one day in school you drew a funns pic ture of the teacher upon the blackboard. Of course, he was angry, and after the scholars Tere seated demauded to know who did it face made him ask if he drew it. 'No, siry 'Do You know who did?' A reluctant 'Tes, lip
sir. 'Tell me his name!' And when he would sir. "Tell me his name!" And when he would reached for his ferule, 'Step forward then
and shall be pnnished. But as papa stepped ones sat, you spraug up from yours in the back of the room, crring, 'Stop! Don't you
lay hands upon ms brother. I drew the picture; sou can punish me." The teacher was a
man of quick impulses. He dropped the fer ule, and after looking from one to the other
of you boss said, 'You may both take your of you boss said, 'You mas both take your
seats. I will see you after school.' And when you remained after the rest were gone, he
ouly talked to sou gravels, and ended bs say-
ing. 'Well, I ing. 'Well, I am going to forgire you, Phil. mischief. I think you will outgrow that ten-
dency; but I hope you will alwass be as loyal to each other and as honorable toward all in the more seriou
The set lines on the old man's face had relaxed and his lips quivered; and if he saw for thes rolled fast down his thin, brown cheeks and fell unheeded on his nerveless
hands. The girl understood; there were tears hands. The girl understood; there were tears
in her own eyes, and she laid her soft hand in her own eyes, and she laid her soft hand
in mute sympathy on the hard, thin fingers of her companion. For some time neither spoke. The man was seeking to regain his self-control and the other seemed occupied
with the novel sights and sounds along the way. At last she spoke:
"Are we almost home, Uncle Tom?"
the trees around the bend in the road." "Oh, I am so glad: I hare always been anxious to see it. It seems strange, too; a and nom I am almost there," She eagerly scanned the rambling, old-fashioned buildings, devoid of paint and gray with the shadow of time. The shutters were closed, sare in the rear of the dwelling, and not a shrub or blossom adorned the premises. Altogether the place did look forlorn and neglected, and not server: but association made it dear to this girl, and she felt a sort of sympathy for it,
as though it were a liring thing whose life had slowly ranished and left only a shel behind. As its owner had told her, he and
the old farm were both nearly worn out. "Are you disappointed?"
no-". hesitating a little; it looks about as I expected, only papa said the buildings were painted white, and there ras a pretty sweet, old-fashioued posies."
"There used to be," admitted Mr. Norton, nect, I suppose, and the paint wore off. As I didn't care for show, and thought the build-
ings would last as long without paint as I ings would last as long Without paint as
should, I didn't go to the expense of recoat ing them.
he girl sighed very softly and was silent for a time; then she suddenly smiled and said, "Really, I had almost forgotten it, but I am rery hungry.
Mr. Norton looked ruefully at the bag of fully deposited in the carriage. "I'm afraid there isn't anything but riage. "m and for supper,' he stammered.
"Yerer mind; that will suit me perfectlyso long as there is a plenty of both," she laughed
Out on the porch, after the simple meal was ended and Mr. Norton had done the chores about the place, they sat in the gathering twilight and chatted; that is, the girl did the greater part of the talking, while her She told him howe -and thought a great deal. lired and played at keeping house in their lired and play three rooms in a city apartment-block, and making that she might attend school. "But next winter I am going to be a bread-winner, too, and I am so glad. I shall either help Aunt Sarah ser or find a situation where I can earu my living; so you see what a world of good this risit with you in the country will do me. I mean to breathe in all the health I can from this sweet, pure air, and I shall carry the memory of your kindness and of all these beautiful. country sights and sounds back to the noisy city with me, and shall enjoy them orer and orer a hundred time:
After a moment she continued, brightly:
"To-day I hare been sour guest; to-morrom sou must let me be rour housekeeper. You hare no idea what a success I shall be. Aunt Sarah has taught me all sorts of useful care of you and the house."
Tom Norton smiled. How
lookivg into those laughing eyes
"I'm almost afraid I have forgotten how e taken care of,'" he said.
"Pleasant things are usually easr to recall." And so they talked on, while the crescent moon hung fair in the sky and the stars kept their nightly vigil, till at length the girl as papa used to. He alwars kissed my forehead when he said 'Good-night. Alice.' Aunt Sarah does the samc: will you?
For answer he leaned over, ankwardly nough, and touched her white brow with his lips.

Good-night. Uncle Tom."
"Good-night, Alice." He had not once
spoken her name before, haring purposely
effort; but alone he repeated it orer and breathed it, he lored to speak it and hear r's; and she looks just as her mother did Then he eutered the house, and going straight to his slecping-roon, opened a large, key from its hiding-place in one of the pig. eonholes. and after a moment's hesitation unlocked a small dramer that had been closed or years. With trembling hand he took like thosc of the woman's portrait were rers just left him. Long and earnestls he gazed, as though he could never be satisfied, and as though he could nerer be satisfied, and
memory was buss calling up from the past sceues and incidents which now secmed al-
most to hare belonged to another life. There Was a ting curling lock of chestnut hair, that he wound ahout his fingers, and a few letters,
which he touched reverently. At last he took up the other picture. "Phil!" broke from his lips. "What a handsome lad he ras! So
brave. and ret so gentle! No wonder she ored him hest." He sighed hearily and passed his hand across his brom. "And since then I have shut myself awar from the world, eren like these poor creatures. feeling that
my story had been told and life must hencemy story had been told and life must hence-
forward be barren and desolate."
He looked back over the long years and re est had been the accumulation of property. He knew men had aroided him on account of He knew mien had aroided him on account of
his forbidding coldness and taciturnity, and had termed him exact eren to meanness in business dealings; some were blunt and inconsiderate enough to call him "miser." dll
cond this he kuew, but his heart seemed to grow frozen within him-dead, he sometimes felt and he had long ago decided that the onl satisfaction in life lay in the gaining of moner. But the coming into his darkness of this bright, happr, young creature, who lored him and trusted him whether he would o presen shed the trarmth and sunshine of he his rery heart and stired blow reached him emotions he had stirred into being within of existens hand had thrown open the long-closed portal of his youth and called lang-closed portal those whom he had truly loved and who had lored him-this innocent, artess in in fout hêrricturdiomsoheru manares, to skake dance with whose supposed truth he had fash all, he had a woman yet, had gained a philosophy of o disco gladsome living

Long he sat there, his head bowed on his hand, pondering the question, but found no practical solution which would apply to his
situation. "For," thought he, "I am an old man-tco old to change my opinions or man ner of living; in fact, I can hardly remembe when I did not feel old. Besides, the past With be reanne
With a sigh he returned the pictures to their hiding-place, but nerertheless sought his had not experienced for years, and which he could not understand.
Next morning when SIr. Norton came to the farm-house for breakfast, haring arisen early and performed his accustomed tasks, to him a rision of loreliness-Alice arraved in a pretty bright blue print gorn, her rosy face dimpl
approach.
"Good-morning. Uncle Tom. I was up al most as early as you mere. and I have been a bit assure you. I looked about the place neighbors, and hase got a delicious breakfas all ready for you. Just see! Don't you believe wand and call, 'Omelet, corn-mufins, strawberries and cream,' to see them appear? could hare produced such things in this could hare produced such things in this
house,", he admitted, with a puzzled but appreciative look at the breakfast-table.
'And are not those wild roses lorely in that dear old-fashioned blue borrl? Neither the our board this morning.'

So she chattered merrily on, while her uncle did full justice to the meal. When it wa to admit rour success as a cook. I haren't eaten such an omelet and muffins since mother used to make them for me; and now that you hare had the satisfaction of mrstifyiug me, tell me, if you please, where you
found the materials; certainly not in my pautry. for I know my cupboard was bare. "Well, I did find the meal for the muffins
in your pantry, but you must thank your in Your pantry, but you must thank your
delightful and generous ueighbors for the eggs and berries."
"Neighbors? I didn't know I had any of the kind you describe," iu a tone of surprise, a flush of re

- Why. yes; the Hamiltons. I found then
walked orer near the wall which divides sou land from theirs to get these roses, and
found Mrs. Hamilton and two of her chilfound Mrs. Hamilton and tho dren near by planting some flower-seeds. morning: for I felt so happs and it ras such a good morning that I wanted to speak of it motherls that our acqnaintance progressed famonsly-across the wall. I told her I was your niece, come to make rou a risit; that I
was golng to be your housekeeper and take excellent care of you: that rou were such a kind, good-hearted man it seemed a pitr for
rou to live alone, and I was going to brighten rersthing up for you while I remaine. Sue seemed interested, and told me something about herself. and asked me to be neighborls, and then one of her bors came running up
mith a lot of eggs he had found. and she just asisted that I should take half of them, beferr minutes another son, a roung man. came ut there with a big basket of stramberries he had picked, and those kind people woald
gire me a lot for breakfast: and they say I am quite relcome to get as many from their them all. I am so fond of them. I was only
too happr to accept their kind incitation. too happr to accept their kind inritation.
"And then just see these flower-seeds-nasturtiums and morning-glories-which the
Hamilton gare me. I am going to plant the 'glories' so ther $\pi$ ill climb up orer the porch,
and the nasturtiums aroynd that big elmand the nasturtiums arouyd that big elm-
tree, if you are milling. Te shall soon hare them growing
are so prettr.
"Oh, plant them, by all means
"And, Encle Tom, if you will bur just a few hings at the store when sou drive down this ner for son, which will, of course, include some fresh regetables from rour garden. "Vers well; I will call around for your list before I go."
Mr. Norton retnrned to his work in the
barn; but, truth to tell, instead of going about barn; but, truth to tell, instead of going about wheelbarrow and relapsed into a brown study He frankly admitted to himself that his niece was a pnzzle to him; thus far she had been
constant sonrce of surprise. She seemed to constant sonrce of surprise. She seemed have a facnlts for calling out the rery best that was within erery one, without the
slightest effort or design. and she seemed slightest efiort or design. and shebling orer mith happiness, which she communicated to all with whom she came in his neighbors, the Hamiltons, between whom decided antagonism. He remembered now been of a trifling nature, but little by little no hope of a reconciliation. True, at one time
Mr. Hamilton had made some orertures tormard peace, but thes were promptly de-
clined and had nerer been repeated; the two clined and had nerer been repeated; the two
neighbors haring as little association as though living in diferent states. Tet this morning he had heartily enjored a delicious generosity of these same disagreeable neigh-
bors. How was it he had nerer discorered bors. How was it he had nerer discorered loated out to him from the open
dow a sweet young roice singing:
"All up and dorn the whole creation, sadly I roam,
Still longing for the old plantation, and for the old
All the morld is sad and dreary, everymhere I roam;
Oh, darkies, how my heart grows weary,
Were there tears in Tom Norton's eves he listened? Well, perhaps so. fnr he drem after a fer moments, he arose and went
about his work, the questions which had perplexed hlm were evidently still unanswered;
for there was a pathetically unsatisfied expression on his face, as he shonk his head, Little by little Alice opened the long-unused roons in the old farm-house, cleaning them
thoroughly and letting in the sweet summer breeze and the bright, purifying sunlight.
Under her gentle dominion the quaint, stiff, assume a furniture seemed to unbend and assume a more comfortable and homelike
appearance; and there mas almass sure to be of wild blossoms, and bouguets of rollicking nasturtiuns.
Llttle by little, under the same gracious
influence, Tom Sorton's nature expanded, influence, Tom Norton's nature expanded,
and his heart, long closed to the sweetness
and beauty of life, opened its doors and admitted the warmth and wholesome sunshine
which radiated from a brighter and more Inving spirit. And he grew to 100 k forward
with pleasure to the qulet evenings at home, With pleasure to the qulet erenings at home,
and to watch, on his return from torn, for
Alice's smeet face at the door framerd in br the delicate morning-glory rlnes and blos-
soms; so that when he missed secing her be
somehow felt disappointed. somehow felt disappointer.
The summer dars flew swifly br. June
had passed through flower-strewn paths into sultry Juls; and one day, in the latter part
of that montli, when at noon Mr. Norton approached the farin-louse from the filld
for the midday maal, Alice ran ont to meet
hlm. He suluileql at her flushel hlm. He suilited at her flushed, cager face,
and asked as she came near, "Well, what
ans
"Oh, Encle Tom: There is a poor moman in last forgot her awkwardness and echoed the house who has walked from the town to
bring sou some moner for rent-only five dolbring you some moner for rent-only five dol
lars, though she sars she owes more. Her name is Jameson.
Mr. Norton's face clouded. "Tes, ther orre for tro months' house-rent-sixteen dollars the last time I called for the mones she told
me sbe would bring or send it as soon as she could get it.
-Her husband has been ill for a long time th a ferer, so ther hare had no income "People should have something laid bs fo just such emergencles. and not expect others to support them when a rainy day comes. quarter a day in the factors, when he is at work. and ther have three children to care for." Alice cast a pleading glance up into
her uncle's face. but there was no response. $\because$ And since he has been improring a little so she could leare him alone part of the time, she has been doing washing for people to earn. What she could; and she does look
so tired and caremorn. rou $\begin{aligned} & \text { ill surels pits }\end{aligned}$ her when you see her. She seemed greatly
distressed because she could not par you more, and fearful that rou rould insist on their moring out of the house at once. I comforted her as best I could; assured her you Would not think of requiring them to move of the kindest of men and would do just what wis right. I told her she must take dinne With us, and in the meantime made her li where she fell asleep at once, seeming quite exhaústed."
They had reached the house by this time and entering, Alice softly pushed open the door into the sitting-room and motioned he ing roman. The position of her bodr es pressed utter weariness-one arm hanging orer the side of the lounge, the thin fingers relaxed during this brief respite from
the toil which had so hardened them. pale, emaciated face had want and care writ ten in unmistakable characters upon its fea tures; the sunken cheeks and temples, the dark-circled eres, the lines across the fore
head, the pitiful droop at the corners of her mouth, told their stors all too well. On might hare thought her past all earthly suf fering, sare that a trembling. broken sigh
parted the drawn lips; and Tom Norton turned aray Nith an incoluntary answerin sigh, saying, "It would probably be bette
for her if she were realls dead, as she looks.
 ing the door, lest the sleeper shonld be dis turbed br the preparations for their meal. she asked that you mould give her a receipt for it." to the door of her uncle's room to call him. she entered. "If in ment, please." Wondering, tenant instead of mine, what would you do "Do rou circumstances?" asked Mr. Norton. questioned, looking straight into his eyes With one of her brightest smiles.
"'Certainly."
"'Well, theu, I mill show sou. If I were able, I would write a receipt like this and
gire it to her along with the fire-dollar bill
she brought" she brought.
Mritten. Aorton took the receipt his niece had written. .. 'Receired parment in full to
October 1st.' Do sou realize that means four months' rent-thirts-two dollars?". he de-
manded. manded.
"Ies, I realize that it would mean onls
thity-two dollars to me, while it would mean thirty-two dollars to me, while it would mean
comparative enmfort and release from carelerhaps even life i.self-to th se unfortunate
Aliec's roice was soft, but intensely earn est, and her eyes were eloquent; Tom Nor-
ton, looking into their clear depths. experieneed a sensatiou of shame which sent a
crimson flush to his forehead. A moment he hesitated: then taking up a pell he signed his name to the receipt, laid the fire-dollar
bill upon it, and handing them to bis niece, said, "Vers y
Mrs. Jameson."
Alice's face fairly shonc with delight; she her impulsire fashion, exclaiming, "I thank you a thousand times' Inu are-the best-
Cincle Tonlin the whole world:" punctuating her speech mith klsses
"I Wish I thought so. too," he said. aud
somehow his face secmed to hare caught a
reflected glow from Alice's jorous countereflected glow from Alice's jorous counte nance. Just then they heard Mrs. Jameson once to her Allce said, "We were just
ready for yoll. I hope son feel rested and refreshed after your sleep?"
Thcir repast was simple. but wholesome and temptingly arranged. It secmed a feast
to the guest. Who, howerer, was filled with to the guest. Who, howerer, was filled with constrailled before Mr. Norton: he, as usual
belng rather grave and given to sllence. But Alice was egual to the occasion: she was so
anituated with pexess of happiness, and so interested in Mrs. Janesou's firmily and their
sltuation: so srmpathetic and at the same sltuation: so srmpathetic and at the same
time so encouraging, that the poor woman at
last forgot her amkmardness and echoed Alices confidently expressed hope that ererr.
thing would soon be brighter, though, it must be coufessed, with considerable less assurbe col
At length the meal mas finished, and the
oung hostess had had the satisfaction of seeing for a moment a faint smile lighten the man face opposite, eren as sometimes a pale gleam of sunshine struggles through the clouds and quickly fades from sight. The big, old-fashioned clock in the corner solemnls struck one. Mrs. Jameson started at the sound.
Ing it realls one oclock? Then I must be going home; Joe and the chlldren will need me. I thank rou for rour kindness; this
the first real rest I have had for weeks." "Then rou will mant rour rent reccipt, Cncle Tom asked me to gire it to sou."


## "I am sorre I was obliged to bring so little

 of what we owe. I will let rou hare more just as soon as I possibly can," said llrs. glance at Mr. Norton.Just then the bill fell out of the receipt which she held; she picked it up in surprise, while a faint color stole into her cheeks. This is rours," she said, handing it to her landlord. He onls shook his head, but Alice said, "'No, it is sours; read your receiptthat will explain eversthing.
With trembling fingers
With trembling fingers the woman unfolded the bit of paper and read: then she re-read, Still surprised and half bemildered sher 1st. Still surprised and half bewildered she looked "Trom oue to the other of her
"What does it mean?" she asked.
"It means," said Alice, gently. "that your ent is canccled up to October 1st, and that the mones rou brought to-day is sours to use for whaterer sou may need. Jou know would do just right.
The poor creature, orercome by this unexpected good fortune, was alternately sobbing and laughing. At length she grem sufficientls calm to say, brokenly. 'I can't thank rou enough, Mr. Norton; I can't make you under stand what a load this lifts from me. I felt completely discouraged this morning; it seemed or any more brightness in the morld for me. Joe mends so slowly, partls because he worries about running in debt; and work as hard as I could, and liring eser so poorls, I could ashamed to tell you I don't deserve your genand grasping and I believed it was so; while instead you have been more kind to me than any one else in the morld.
all now how good you are,"
"You can thank Alice here, not me, Mrs. Jameson; it was all her plan," said Mr. Norton, speaking rather huskily, owing to a quee "Wpell his throat
f $m y$ heart; and if brath from the bottom of my heart; and if gratitude could par sou
sou should have full measure for erery

## "We are just as jorful orer it as you are

 re we not, Uncle Tom?" with smiling lips, and eyes shining through happy tears.Mr. Norton only nodded and smiled in reply again; for he took occasion, when he thought no one would notice, to furtirely wipe his eses. And that night when he fed Dobbin with an unusually liberal allowance of grain the das, "It docs beat all what a feeling of satisfaction it gires a man to lend a helping hand to some one who needs just that lift: it may cost moner, but I guess it pars, thing but hard cash as a return for ms in estments
Anout month later the Nortoas-uncle and niece-were sittiug out on the porch iu mucl shorter the days are growing: and the crickets. are chirping a pronheer of fall quoth Alice, half pensively; then added, irrel evantly, "Have rou noticed how fine the Hamilton's housc and barn are looking, with their fresh coat of paint
ment."
"Tell. Cncle Tom,
I hare a little plan in mind, which I hope sou will help me to
carr out. I was telling Mrs. Hamilton carry out. I was telling Mrs. Hamilton
today how much I mished these buildings could be painted again just as they used to be when papa lired here, and as I had almar: young man I would paint them mysclf-rou
 she is provide the paint, her boys is slie calls them. would put it on, workiug half of cacli day as they did at home. Yon see. I hare helpe more to be done before the cold weather, and I could accompllsis conslderable during the remalnder of my shay with rou. Annt Sirah
has taught me to cut and fit dresses, as well as to make them, and-'
"And you mant to do dressmaking to pay listen to such a proposal?". interruptad Tour -orton, with mpoposal:"
quild cost too much mones, and sou were quite satisfied with the place as it is: so it you wonld be generous to par for the paint." "I reunember I said something of the kind." speaking rather slowly, "but I have changer will bur the materinls to-morrom and will pas the bors to paint the buildings.
"White-and the bliuds
"White-and the bliuds on the hous green-just a
Alice, eagerly
"Just as they used to be," he said, with half sigh: then. "but rour seming is not to all the the bargain in ans way. You find I like, when I am being around the place and to find you ber when I return.: Hace. and to find jou her amkwardr enough, but then thoughtfulness for others and the mating of prettr speeche had alwars been quite out of his line o effort.
Alice understood aud thoroughly appreciated the compliment. "That a dear old Uncle Tom you are. then laughing softly "but it is really rather unfair to place me a such a disadrantage; of course. I cannot urge my proposition when you disarm me with and so it argument
And so it came about that the old place was rejurenated and appeared once more in it
one-time garb of spotless white. The opera one-time garb of spotin whe opera one, but was emjorable to all cancerned long roung painters found the change of occupa tion from their accustomed labor altogethe pleasant, and in the opportunities for renerred acquaintance between the tmo houses which resulted both the Hamiltons and Mr. Norto were surprised to find agreeable neighbors instead of enemies, and good-will took the place of former hostility. It must be admitted the situation was somewhat strained at first, but dlice's tact and all-perrading cheerfulness soon put every one at ease: and When the task was completed all were read. to echo her ent
great success
"I shall love to think of it, after I go home, and green, nestled here among these beautifu and green, nestled here among these beautiful think no other place will ever seem quite so restfnl and homelike to me."
"Why don't you stay here then? Why do you spea
uneasily

Because I hate already made sou a long risit; though it has been so pleasant and
seemed so short. Besides, the letter which you brought me from the office to-day was from Aunt Sarah, and tells me she has re back to her and it is almost October I know she mises me and realls needs me,
"But I, too, need rou, Alice. I can't let you go," said Tom Corton, in a strange, sup of his reserse secmed to gire was before th force of the intense feeling pent up within him, and for the first time in sears, perhaps in his existence, he expressed freely the emotions of his heart.
change you hare Alice. What know, as I do, what a hard, selfish, unloring man I was before rou came to me: I had long felt-since a great sorront darkened my without friends or lindred; that my hear Tas dead within me so lacting was it in bur man srmpathr. But when was it in huour first meeting a breath of nem life seemed to thrill my $\pi$ hole being. ond rour persistent affectionate good-will toward me, and al mankind as $\pi$ ell, has been like sunshine afte darkness. I have seen the world through sou eses, and found it rery different from the roild which I had heretofore made for my self: but I know the change is in me. What vou hare done for the old farm-house here-
renorating. purifying and brightening within and with. purning and brightens wion can't let you go away, lest we both fall back into that dreary existence milich we so lon formed. I I as then ind becu trans formed, I 1 a couditions."
earnest and he roice was low, eloqnence. But the thought of losing the street coinpanionship which had grown so come his usual restraint, and out of a full heart had his lips spoken.
Alice's hand slipped iuto his, as she said, softly, "Dear Unele Tom! I am so glad to have brought rou a gllmpse of sunshine, and would become of Aunt Sarah? She necds me
"Then she must come here and live with s:" excl:imed Mr. Norton, with determina

That mould be delightful if it could be it:". exclaimed Alice, enthusiastlcally.

Good? No; only selfish, I am afraid. But certainly you ean persuade her to come to us. You seem to have a faculty for making
people do whatever rou desire, eren the most hardened and unproulsing oncs-llke me, for Instance."
me a good deal of rraise which 1 don't de
serve. I just lore you, that is only secret. Teople can almost always b
loved loved into doing what is best and right.
"I helieve that is so: but I liver aluo lifetime without discoreriug the truth, an in the same darkuess should doubtless har had it "inis' at the end of in life's stor Alice succeeded in induciug her aut make her home in the Norton household, an old farm-house. After a time another mem her mas added, in the person of Arthur Ham-
iltoll, who had from the first giren his love to sweet Alice. and who was "the happiest
fellor in the world"-so he declared-when Tom Norton lived long thereafter, who knew him with all mankind; and maus Which gradually altered him from a cold, into a gentle, kindly soul, expressing alone knew its full extent and siguificuce

## A WOMAN'S LOVE

A sentinel angel sitting high in glory
Heard this shrill wail ring out from purga
$\qquad$ "I lored-

## fell.

I do not rage against this high decree Vor for mrself do ask that grace shall he
But for my love on earth who mourns for Great spirit! Let me see my love again, And comfort him one hour, and I rere fain
To pay a thousand years of fire and paiu."

Then said the pitring angel, "Nay, repent
That wild rowr" Look, the dial finger's bell
But still she wailed. "I pray thee, let me go I cannot rise in peace and lore him
Oh, let me soothe him in his bitter

The hrazen gates ground sullen ajar,
And: upward, josous, like a rixing st

But soon adown the dying sunset sailing, She futtered biagl, in broken-hearted wailing
he sohbed, "I found hin hy the summer sea keclined-his head upon a maiden's $k u$

She rept. "Now let my punishment hegin! I hare heell fond and foolish. Let me
To expatiate my sorrow and my sin.'
The angel answered, "Nay, sad soul,
hither!
To be deceived in sour true heart's desire
W'as bitterer than a thousand years of fire
-John Hay.

ANY LETTERS FOR ME ?
You asked this question at the little wicket bead was just risible inside. In a city or large town, sou put the question man in gray?" Fou call him the postman. He has a bag, hung hr a strap from his
$\qquad$
$\qquad$ behind the man in gray, oue of the largest most complete and most marrelous estahlis is ealled the postal system. Years ago, when tters were carried hy posmen on horsehac he dars when Warren was fighting the Brit sh and dying for his country at Bunker Hill great American-machine-for-dissemina
ing-intelligence was established. The Con
inental Congress took charge of the postal

Tho theu lived-onc of the wisest of a Benjamin Franklin.
ime hefore the rear 1863 , rou had to par for istance. It cost twentr-five cents, and then ciscu. In 1863 the rate mas fixed at three ostage wias reduced to two cents tor som can send by mail a ponnd of cands or a jack send something either written or printed atches of rou to mail, eqpecialls if they or in one hunde; but anything not dangerous
 of the "star routes?" These are the loug
stage-lines conresiug the mails to tomus, mostly in the far West, array from the But $w$ hat is behind the "man in gray?"
First, a great department of the United
States govermuent. Hon. Charles Emory States governuent. Hou. Charles Emo aud a member of the president's cabinet. Th
post-offices are in four grades or classes. Th first or highest grade comprises the po
oflices mostly in the large cities. The po hy law. The largest post-ollice is that in Ne York city. In the other three grades the
salary bears some proportion to the amount of husiness done. Postmasters of the three
highest grades are appointed hy the president
and confirmed hy the senate. Those of the fourth grade are appointed $b y$ the postmastergeneral. The postmasters are feed-tahle aud
driving-wheel of the machlne-for-dissemina-ting-intelligence. They take the mail into the
machine and start it going. Then comes the machine and start it going. Then comes the
rapid rotators, constitutiug another branch of the serrice. These are the railmay mail
clerks, who are pieced out, as it. were, hs the
stages and riders. These clerks ride thonsand thunderiug trains, and take in and conreniences for emptying the sacks and as Joha Smith, of New Haven, into the Omaha sack, John doesn't get it so soon, so ther hare
to be careful, expert and rapid. All mail fore starting hy the postmaster, with the patent lock. Then the mail-elerks pass from conresance to conresance until
reaches its destination. But the rapid rot tors, whom sou never see now at the end of
the long journey, gire place to the husy an
hulators. These hulators. These are
call them postmen.
This branch of the postal service is calle the carrier serrice. All cities of 10,000 inhab
itants may have postmen. They itants may have postmen. They must wear a gray nniform and a gorernment hadge.
Thes collect the mail from street-hoxes aud deliver it at dwellings and stores. They ge and work eight hours a day. And this great chinc. This machine is oiled and regulated
at the nationaloopisol hy a smansine accouts
clerks and inspectors, who keep the acouts and preserve the clock-work halance.
One of the great auxiliars functions of the postal service is the prorision for heing a con-
renient hanker. This is called the moner renient hanker. This is called the mones
order branch. It will take two dollars, or
fiftr dollars, or fiftr dollars, or one hunder dollars for you, and carry it to any other mones-order office
in the countre. The queer part of the matter your office, and your friend to whom you send office, the money is not usually sent at all. money from his post-office to rours, and this months, and then these trio offices hare balance struck.. The one that is in deht pay
up to the government, and the one that has credit receives it hack. This money-orde husiness is thus a great national accommo-
dation bank srstem for popular use. You hus a mone
another.
All the people who do this work nust be all proper inquiries, and treat the puhlic with respect. I feel like remoring my hat when
I walk up to this stupendous machine-fo disseminating-intelligence, and ask, "Are ther Journal of Education.

## PORTO RICAN MUSIC

Like all other Spanish-speaking peoples, the Porto Ricans are fond of music. Every cafe husiness without one. Erery main strcet dur itinerant band of guitar and riolin players, and the warm nights arc made pleasant to
the strollers along the streets by the sound of stringed instruments which floats from be hind the la
Netirly all the airs are pitched in a mino
Nesinder ker, which, even when intended to be joyous contains a plaint to the Anglo-saxon fond o
Sousa's robust music. To onc who las traveled in Spanish lands the music of Porto Rico at first seems rery familiar. hut the car i the aecompaniment of the melod
It sounds at first like the rhythmical shuffe of feet upon sanded floor, and one might suppose some expert elog-dancer was iolins and guitars. The motion is
too quick, too complicated. for this, however,
and it is the deftness of fingers, and not
It comes from the onls musleal instrument
word is prououneed "huir-r-a," with a soft
roll aud twist to the tougue onls possible to
the natire. The "guira" is a guord rarying
in size in diftereut iustruments. On the in

IS IT A TRIFLE?
That Common Trouble, Acid Dyspep sia, or Sour Stomach
Now Recognized as a Cause of Serious Disease
Acid dyspepsia, commonly callcd heartburn or sour stomach, is a formony of indicestion resurn or
srom
fermentation of the food. The stomacl

## curains until fermentation begins, filling the

## 

tion soon beomes chronic, and being an every
day oeurrienee, is givel hut little attention.
Because dyspepsia is not immediately fatal, many
people do nothing for the trouble.
Within a recelt Within a receut period a remedy has been
discovered, prepared solely to cure dyspepsia
and and stomach troubles. It is known as stuart's
Dyspepsia Tablets, and is norr becoming rapidly form of dyspepsia. Stuart's Dyspepsia Tablets have been placed
before the public and arc now sold by druggists everywhere at 50 eents per paekage. It is pre-
pared hy the F. A. Stuart Co., Marshall, Mieh., and while it promptly and effectually harmless and will not injure the most delieate stomach, but on the contrary, by giving perfeet
digestion strengthens the stomaeh, improves the
Send for free hook on Stomach Diseases.

the island as a souvenir which is distinctly
native and peculiar.-Kansas City Star.


PLLASE ALL WHO USE THEM
USt infil

## $\$ 17.50$



S14.50 for

advance. WARRANTED 10 YEARS
 $2=5=2$


Believe that the most perfect synonym for the word home-maker is a loving, patient
mother. We hear and read so much on the subject of "The Ideal Woman,", "The Per-
fect Home-maker," "The Systen
Housekeeper," Housekeeper,
Iodel Mother," and kindred subjects, the we are overmhelmed with the multitude of these articles, and are in danger of being engulfed by the adrice, the
cal, which they
The more I think of
The more I think of it, the more I am in clined to the opinion that the patient mothe is the ideal woman, the perfect home-maker,
the systematic housekeeper and the model the systematic housekeeper and the model
parent, all in one. We are all faniliar with parent, all in one. We are all familiar with
the words, "And now abideth faith, hope, charity, these three ; but the greatest of these is charity." We know that it is this lore-blessed lore-which is the corner-stone of the home; but is not this God-given
patience the cap-sheaf of the whole? Patience is not lack of spirit and energy far from it: It is the culmination of these qualities under consummate control. I do not believe there are very many people who pogseee; yet it can be cultirated. We often wish that we had as much patience as Mrs. Blank, not stopping to think that we might possess an equal amount if we would put forth the same effort to obtain it. We see only the finished work, not what it has cost
"But how c
stematic can I keep patient?", says the systematic and extremely neat housekeeper when when in have my plans all laid, or portant work that will suffer if left even for
 or perchance unexpected guests arrive to spyse the day. Again, when I have slared finally in order, the children come in and get everything topsy-turvy in less than no
time. I tell you I just cannot retain patience under such prorocations. House keeping is such slarish work," she adds, with a sigh, "and children are so trying."
Yes, children are trying; yet what woul our homes be without these same dear, de lightful, trying children? And housekeep-
ing is not easy work. But should we b ing is not easy work. But should we be
slares to it? If we work so hard day after day that our bodies are exhausted and ou nerves worn out, we cannot easily be patient,
and we are wont to excuse our irritabilit on the grounds that we are too tired to be pleasant
It may be-may be, I say-that we will not be held accountable for becoming impatient when our nerves are all unstrung; but are we always excusable for allowing ourselves to become so weary? Are there
not some things that could be left undone or done in a more simple manner? If they hire some one to do it? Nothing can fully restore a broken-down body or bring back lost health. Surely nothing should be called extravagant which is necessary to preserre physical strength and nerve-force as so many of us American women are doing. And after all, it is not so much the work as
the fretting and worrying that accompany it that are doing the harm. It is not the revolution, but the friction, that wears out
the machinery. Worry is rust upon the wheels, retarding the recolutions and diminishing their power.
Helen Watterson Moody, in the April
number of "The Ladies' Home Journal," says, "Good housekeeping is easy housekeeping, and if a woman wear herself into shreds and tatters keeping house, the case believe that there is much truth in her statement. If we cannot rest from our worls we inust learn to rest in our work, or it will be impossible for us to
nother we should be.
It is, I suppose, praisc worthy to aspire to this should immaculate housekeeper, but this should not be the highest aim in life. A In order to do this she must sometimes step aside from the routine of daily toil, and rest.
the housework. "Oh," says one, "it is muc easier to do the work myself than to hare the children bothering around." Ies, pe haps easier for you, but not so good for them; and while they are helping thes are at least kept out of mischief. But this is not all; they are learning many things that will be of use in after life.
It is pitiably sad, howerer, to allow these little ones to do the work in a careless, slovenly manner because we are too-lazy, I was going to say-careless will sound less harsh-to teach them to do it correctly. It f we begin aright. There is a right way to if we begin aright. There is a right way to iron and sew. It is our pririlege as homemakers to teach them to do these things in the best possible manner. We will save tim taking time for the necessary instruction A girl's knowledge of sewing and house ont have cones amiss. Even if she doe chances are herk-although the know how it is done. The more thoroughl

Churning brings the butter, but resting brings the cream. The calm, quiet waiting, that the cream may rise, is as essential to the butter as the energy put forth in the churning. The richer part of our natures has no chance to come to the surface if we never stop to think or rest or pray
As housewires we often possess all the and painstaking, good cooks, economical: we are also loving and kind if everything goes along smoothly. But let something go amiss, and we are impatient at once. And oh, the pity of it! We rent our ill feelings on those we lore more than life. We would not disclose our anger to outsiders, nor our
unhappiness to strangers, neither would we unhappiness to strangers, neither would we
tell all of our disappointments to our tell all of our disappointments to our
friends; yet we too often think we have a perfect right to show these feelings to those of our own household. We are not excusable becanse naturally sensitive, nerrous or impatient, nor exonerated when we say, "I do the best I can." There is much difference
between our natural best and that when between our natural best and that when
wrought with the aid of the Heavenly Father. Our best is not our best without his help.
To care for and to train our children to lives of usefulness is pre-eminently our work as mothers, and should be given duty is not fulfilled when we have giren our darlings enough to eat, or have provided clothing for them to wear. Our training should not end with the doctrine that they must ober; there is a soul-training that should not be denied them. The noral nature must be dereloped. The minds and hands of our children must be employed with pleasant, elerating occupations. The law of substitution works admirably in
childhood, supplementing the good for the bad, the ennobling for the destroying. must be kept buss, and we must see to it that their energies are directed into the right channels. By doing this we not only aid in the proper development, but are aroiding
improper activities in undesirable channels. It takes time and undesirable channels. It takes time and some patience for a
mother to now and then look after the lessons of her children and see how they are getting along at school; but it is a wonderful encouragement to these boys and girls to know that mama takes an interest in their progress, and will assist them in their studies when such help is necessary. Not many of us can leare fortunes to our children, but it is our duty to see to it that they power to gire thein.
Let the little one
assist in the simple duties that pertain to

horoughly and the work, and the more thoroughly she has mastered the art, the less like drudgery will it be, and the more perfect home-maker can she become. I
wonder if all of us might hare the words wonder if all of us might hare the words
truthfully inscribed on our tombstones that a dear old lady had on hers, "She was always pleasant in the home.

Ella Bartlett Simmors.

## CHIP.CARVING

Several readers of the Firm and Fire side have sent questions concerning this branch of carving, which show that suffic ent interest is felt to marrant another article on the subject.
Chip-carring in its origin and most general exercise belongs to Jorway and Sweden. There the peasants make it their pastime, pleasant and profitable was to spend their long northern evenings. As they do the work they use but one tool, a hook-bladed knife, which they manage with one hand and hold the wood in the other. In writing about chip-carring in former articles I hare aid that it could be done with a chisel becanse I have used that tool. As I first gouges I simply "picked up" chip-carring, which is so much easier than relief-carring which requires several distinct processes A picture of anything is worth half a column of description, therefore you will be pleased to see an illustration of the short, curred knife proper for use in chip-carving (Fig. 1). The picture shows the knife only half as five inches long including the handle. Mr. John Tan Oost, who is an authority on this kind of carring, suggests that a shoemak er's-knife may be ground down to the proper shape (Fig. 2), or he says to buy a pattern maker's-knife of the largest size.
You will hare said when you read thus far, "Chip-carving is nothing but whittling," and that is true; it is artistic whittling.
It is necessary to select soft wood for this difficult

Fort.
For first experiments try a very simple esign on a pine board. It will be wise to exercise your prentice hand on sereral bands and rosettes. Do not make deep cuts Iou wish to produce effects with as little labor as possible. When you decide what ish to decorate, for instance, a box or a picture-frame, have it made by a cabinet-maker, bu o not let him fasten the parts ogether. Warn him also no to smooth the wood with sandpaper, because the sand will dull your knife. A pictureframe may be carred when the corners are fastened, but I can think of no other article which could be handled conreniently without being taken apart.
Aler the work is finished I

Many children-and oh, the pity of it!"haring a barty", The experience the bliss of haring a party." The father is too poor or the mother is too bnsy or-or-or- The partyless child attends other children's par ties, perhaps, or if not invited looks mistfull through the fence at the happy little guests and wishes and wishes and longs and longs for a party of her very own
A child's party need not be an expensive affair. Some of the most charming are the very simplest. The mother need not tire her self out in preparing for the small guests Eren a little effort is rastly appreciated by children, as erery one who has the care of children knows. A "party" may be a de lightful affair with only four or fire little folks as guests, a table neatly spread out under the trees or on the porch, a plate o tiny biscuits or fancy-shaped sandwiches thin and daints, a pretty tea-pot, smal enough to be easily handled by small hand and full of very weak tea, little inexpensive cups and saucers, a dish of glowing straw berries and a tempting pyramid of small, pink-frosted cakes. Strange how the little mind lingers long after upon the charms o that pink frosting and how sweet and parts
like it tasted!
Children should
not be encouraged to dress up too much for the happy little afternoon oc asions their hearts delight in. A dainty white apron and bright hair-ribbons make a little lass ook quite festive, and a fresh waist and a pretty tie add much to the every day apparel of the arned wood small boy. The
stain to be applied to the rood.
If the knife has been kept sharp the cutting will hare a crispness that makes the light play agreeably on the different angles.
The illustration shows a mirror-frame in clip-carving (Fig. 3). The mirror is six inches by eighteen inches, and the frame is

## PART.ES FOR SMALL CHILDREN

There never lived a child in this wide world of ours who would not receire with There is something in of "having a party. There is something in the very word which
is enchanting. Through the cliuldisll mind is enchanting. Through the cliildislı mind flash swift visions of white dresses, blue sashes, shiny shoes, "crimpy", hair, frosted cake, pink and white-oh, the delicions, never-to-be-forgotten perfume of that frost-ing!-candy and nuts and oranges, and the happy, noisy games, with a sweet, innocent ranity all the time in the pretty" "dress-up" clothes which do not usually go with "tag" and "needle's-eye" and "snap-the-whip" and "drop-the-handkerchief."
to dress more prettily than the poorest of her guests. Simplicity in all that per tains to childhood is one of its greatest charms.
There is one thing the little ones enjoy at a child's party, and that is the old-fashioned exercise of "speaking pieces." After they are arranged in a semicircle in the parlor or on the lawn one child after another steps forward as the mother of the little hostess directs, nakes her modest bow and speaks her little piece. Erery child can recite something for the general entertainment, if it is only about Mary and her historic lamb. I hare noticed that the familiar ones from dear old Nother Goose are most smilingly received, and eren the thrilling story of the mouse that ran up the clock is listened to with at tention. It will generally be form that eaeh child will want to speak another, and the exercise may continue until the little ones are "spoken out," or weary of the game, which they are not apt to do. To timid, nervous mothers who are always dreading an accident this is far better than wild, romping games in which a broken arm is a possibility.
Erery mother who can find the time and patience-and most mothers can-should give her children a birthday party. Eren if this occurs three or four times a year that is not too often. Most children, if giren their choice between a handsome present and a party, will choose the party; and though it means more work for the mother, it means also a spirit of wishing to divide in the children.
The mother should take the trouble to teach the small giver of the party to meet her guests at the door, to greet them all alike -even the own particular chum must not receive more attention than the poorest, smallest child-to watch for their comfort and pleasure, and above all to "give up," which is sometimes so hard for little hosts and hostesses to do. In this way the foundation of true hospitality and gracious manners can be laid, and the training will hare its graceful effect in years to come. If some inexpensire trifle such as would please the childish fancy can be given by the small maid to each guest as she'departs, a swall lesson in generosity can be taught. Her birthday will grow to mean to her a day on birthday will grow to mean to
which to make others happr.
Which to make others happy. joys are among the memories which go with us to the end of life, and no sweet thought of a loving mother tenderly carried out is ever lost upon her child. A happier woman is she who at life's prime looks back lovingly to the good times "mother" made for her when she was a little girl. Happy the middle-aged man who takes time in his bus life to remember fondly the happy day, the wonderful day of delight and joy when he as little host, entertained his first party!

[^5]
## HINTS ABOUT FLOWERS

EEert one knows what a cheery, gen erous flower the nasturtium is when grown in the garden, but if you have
never tried it as a house-plant you have a pleasure yet in store. About the first of August plant some nasturtium-seeds in a pot filled with rich garden soil, sink the pot in the ground in a sunny place, and if rains are not frequent give it water. As
the vine grows train it on a trellis fastened in the pot. The plants will grow luxuriantly and begin to bloom in nilue or ten weeks. Take the pot into the house before there is any danger of frost, water it once a week with liquid manure, and it will be a constant
delight for many weeks. A good liquid mannere is made from one ounce of guano in three gallons of water; or cow manure put in the bottom of a bucket and the bucke filled with water makes a good fertilizer for
any house-plants. Be careful to not have any house-plants. Be careful to not have
the manure-water too strong, and use only a the manure-water too strons,
few teaspoonfuls at a time.
Last summer my Crimson Rambler rose was very much injured by mildew on the leaves. Early this summer it was again
attacked, but by using flowers of sulphur attacked, but by using flowers of sulphur
the mildew has been checked, and the rose seems to be in a healthy, growing condition now. The sulphur must be dusted on the foliage. It is best to use a bellows made for this purpose, so as to get the sulphur on the under side of the leaves as well as the top. while the plant is moist with dew.
The surest way that I have found to combat the rose-bug is by patient hand-picking. For rose-slugs syringe the bashes thoroughly with a strong soap-suds made of whale-oil soap or common soft soap. Fine wood-ashes
dusted on the bushes when they are damp dusted on the bushes when $t$
is very distasteful to the slug.
I do not try to raise many annuals in my
lower-garden, but Cosmos is one so easy of fiower-garden, but Cosmos is one so easy of cultivation that I am never a season without
it. Last spring I could not get the ground ready for it, except a small place, so I sowed the seed very thickly, and when the plants
were about twelve inches high thinned them were about twelve inches high thinned them
out and transplanted, pinching off the top of each plant. This pinching back is neces-
sary if you would have stocky, sary, ty you would have stocky, branching
plats, and the amount of bloom is very plagts, and the amount of bloom is very
mueh increased thereby. Chrysanthemums should also be pinched back early in the season to make the plants bushy.
forming on my chrysanthemums I were forming on my chrysanthemums I found
them covered with the black aphis. then covered with the black aphis.
ing seemed to disturb these little pests until I syringed the plants thoroughly with tobacco-tea. To make this, take a handful
of tobacco-stems and steep them by pouring boiling water over them and letting it stand until the water is the color of strong tea. As soon as this tea is cold it is ready for use. This will also destroy the greenfly,
which often infests plants, doing much damage.
Kerosene emulsion is recommended by the Department of Agriculture as an insecticide for all insects that suck the juices of plants. The soap fornula for making the pound of whale-oil soap of kerosene, one soap) and two quarts of soft water If the soap) and two quarts of soft water. If the
whale-oil soap is used, dissolve it in the water by boiling, remove it from the fire, and add the kerosene; then mix it thoroughly by the use of a force-pump or garden-syringe,
agitating it violently until well mixed and the consistency of cream. For use dilute the emulsion with fifteen to twenty parts of
soft water, and apply with a spray soft water, and apply with a spray-pump or
garden-syringe. This enulsion will keep garden-syringe. This emulsion will keep required for use. If only a sinall quantity of emulsion is required and for immediate use, it may be made by the milk formula;
that is, one part of sour milk, two parts of kerosene ; agitate sour milk, two parts syringe until a thick, buttery consistency results, and then dilute with water for use as with the soap emulsion. To destroy the red-spider, that tiny insect that often works such havoc on house-plants, add one ounce of powdered sulphur to the gallon of diluted MLIDA MCL.

## ESAU'S BIRTHRIGHT

This is an old game that my mother taught us children when we were little, and it has always been a great favorite with us. Why
it was called by the name it bears iu the family, and what the real naine may be, I cannot say. The children here call it "tit-
tat-to;" but that is no name for it, for it is entirely different from the game rightly so called
size on slate or paper; in the center of this draw another very small circle, as shown in the diagram. Divide the space between into spaces by means of spoke-like lines drawn from the edge of the inner circle to that of
the outer. Have twenty of these spaces. Fill each space with a number, having them run from one to twenty, and in the center place the number one hundred, denoting the limit of the game.
Two or more persons may play at the game. Let one person shut his or her eyes, poise a pencil over the diagram, and with eyes still closed touch the point of the pencil to the slate or paper holding the diagram.
Hold the pencil still where it touches, and open the eyes to still where it thuches, and he goes entirely outside of the larger circle, or touches a line, he scores nothing, and another player has his chance. If he comes down between two spokes the number there written will count him so much.
Tally must be kept on a slate or paper, and the players try their luck in turn until some one counts to one hundred, or until some lucky player comes down fairly inside the center circle, which gives him the game. The object in having the center circle so small is to make it more difficult to strike

inside, thus making it a matter of some difficulty to score one hundred at one play. Of course, each player aims to do this.
A pleasing variation of this game, to be used at evening gatherings, would be to trace the diagram on a large piece of muslin, say one yard square. Make the diagram large enough to almost cover the cloth, and race it strongly with charcoal or colored chalks. Stretch the cloth across an open doorway and provide the players with darts made from a large cork through which a darning-needle has been thrust so the eye is entirely hidden, leaving the point protruding about three inches. Mark a line on the floor where each player must stand to throw, and see that all "toe the mark" when casting the dart.
One player throws at a time, as in the simpler game, and the scoring is done in the same way-where the count to the plikes on the cloth giving the count to the player. Until the players obecome expert at the method it would be better to allow them to
throw with eyes open, as there will be less. throw with eyes open, as there will be less, danger of the dart flying of "at a tangent target. It is of course more difficult if played in this manner, and hence more productive of fun to older young people.
I would not allow small children or mischievous boys to try this variation of the game unless I wanted to run the risk of

## hygiene and health

## "Of all the methods of waste, that of over-

 eating is the worst."It had never occurred to me in exactly that light until the day that I first began a systematic study of that most important thing in all the life of the human familyhygiene and health. Have you ever taken the thought into earnest consideration? If you have, had the thought ever been given by you any special attention until health had fled and misery had reigned instead?
"We live to eat" has been too truly said. And from the high pedestal of right living, where to "eat to live" is the world-acknowledged right principle, we have drifted down to the lower sphere where, to satisfy an abnormal, acquired appetite, we scorn a self-denial and stoop to a self-gratification of appetite; but only to suffer in consequence thereof.
"In this land of plenty there is an enormous waste of food products." And as we stop to think we realize that through gor-
mandization sufficient of foods are wasted to "feed the world" upon simple and healthful foods, and that as a penalty of disregard
people in all degrees and conditions of nnhealthfulness, and great is the cry therefor If greater attention was given to the sanitar conditions of homes throughout, to the fool appointments of our tables, to the atmos pheric conditions of our sleeping-apartments and the freslness and wholesomeness of our beds and bedding, and less attention given to the seemingly or apparently all-important
subject of "What shall I eat and prepare to subject of "What shall I eat and prepare to eat that will best suit my fastidious anpe-
tite?" how infinitely nore blessed and blest tite?" how infinitely nore blessed and blest
would be the every-day lives of the families in our American lomes, where food products are plentiful, and where the means of providing are not limited.
I have often stopped to think that to be financially poor were not the greatest calanity that could overtake one, by any means. The "just comfortably poor" are invariably in the most excellent of health, for their diet is simple and their lives are led in a natural manner. But we are upon the threshold of nanner. But we are upon the threshold of
an eventful era in our lives as housekeepers and home-makers. Health literature fairly thrust upon us, and as we read, if we do read (and it is to be hoped we all do), we
cannot help seeing where we have stood and cannot help seeing where we have stood and
are standing in our own light and in the health light of our families, through inattention to our foods and homes, and in man ways that we had little dreamed of until we had broken down the barriers of ignorance through a careful perusal of those subjects of so vital importance to all the world.
What to eat and not to eat, and how to eat
of the various perfect foods that we may safely eat, are items or topics upon which and there is too slightly and even lightily change in the countless homes of our boastedly enlightened land. We have been slow to awaken and to understand our posislow to awaken and to understand our posi-
tions as home-makers of the universe, and we have indulged our own and the appetites of our families in a most detrimental fashion And we are paying the penalty-the penalty all must pay who give so little heed to na-
ture and her demands, and a heed so vast to ture and her demands, and a heed so vast to things of lesser importance.
We have not stopped to think, perhaps, that we are literally starving in a land of plenty and in homes of plenty. In truth, need for thought and stady of foods and their uses and abuses has been correspondmaterial stroyed. But this is not all, nor is it the worst feature of the waste. In the overconsumption of foods, and especially of
foods not rightly prepared, we have invited indigestion and its train of evil, healthindigestion and its

We fail so ofteu to select the best of mind and body building materials, or to prepare those materials in a proper way. The more expensive foods are not the best. The
simplest are often the more healthful, being the most readily digested. And good diges tion of foods is the secret of perfect health. We eat and drink in a haphazard fashion. We give little attention to regularity in habit, whereas so very much depends upon it. We fry our food and then proceed to "bolt it," our careful health examiners tell and accuse us. Without regard to combinations of articles of diet best suited to be combined in the stomach for comfort and the deadliest of compounds. And the only the deadliest of compounds. And the only
wonder remaining is that so many escape immediately fatal results therefrom.
It is not an infrequent occurrence for both men and women to mix, in the process of eating and digesting (or attempting to
digest), meat, potatoes and onions, cabbage, digest), meat, potatoes and onions, cabbage,
cream and vinegar, pie, sauces and cake and cream and vinegar, pie, sauces and cake and
various such articles. And then we wonder, various such articles. And then we wonder, when distress or unpleasant feelings follow
the meal betimes, what can be the trouble and why we should experience such sensations of uneasiness and unrest.
A practical physician and writer suggests that of such articles of food one take and run through a sausage-grinder the solids, and add to these the vinegar and milk and butter and cream, and subject them to a temperature of ninety-eight degrees, which is about the usual degree of the human stomach, and after a three-hours wait see what one would think of accepting the mess as a meal. As he says, "You could not eat the filthy mess, and you know it. Is it any wonder,"
he continues, "that the alimentary canal he continues, "that the alimentary canal
revolts and refuses to accept such vile stuff revolts and refuses to accept such vile stuff
as food? The life principle asserts itself for your good, and the whole mass is ejected. And so great is the offense to the stomach that even after the rubbish is thrown out it continues to strain as if to eject even the thought of the stuff; and you are very sick, ard wonder why."

This should be proof sufficient that of food stuffs or materials there are combinations that are incompatible to each other. And we wonder that we dare, when once we stop to think of it all, thrust them into the stomach in so miscellaneous a manner. TVe must bear the brunt of our many mistakes
in food selection and combinations. It may in food selection and combinations. It may
not be now; we may escape any serious innot be now; we may escape any serious in-
convenience therefrom at present, but like "pay-day" the day of reckoning always comes, though it may be delayed for quite an indefinite time. Much depends upon inherent health and constitution; much also upon the manner in which one's time is employed. The feld-laborer will mix his effects indiscriminately and not suffer the whereas one whose habits are sedentary whose employment of time bears no strain upon the physical being, will soon succumb to the after-train of evils that are sure to follow a trespass on the simple and regular laws of nature. In starving the body, or, in other words, in failing to furnish the sustenance required of the right nature and kind, one is starving and dwarfing the mind as well.
Those who have made a life study of the physical being tell us that the entire physical structure is torn down and rebuilt from head to foot at least once a year, and some assert that this entire change has taken place during every six months of human
life. "Recent investigations," we read and understand, "have convinced specialists that the brain material is completely renewe every two months." Should not these things set us, as housewives, to thinking and to action as never before? For through our foods and manner of living we may make of ourselves what we would wish to be Dier braw tables furnish as with a list of food teachings should be a guide to right preparation and combination of all food materials that enter into the daily bills of fare within our households.
In a following chapter we will consider these things, trusting to throw a trifle of
intelligent light at least upon the subject

Ella Houghton.

## OLD. FASHIONED THINGS

"I thought you old ladies were napping?" said Agnes, as she stepped quietly into the north bedroom.
"Oh, no," I said. "Your mother is showing me her treasures;" for I couldn't help feeling that the pretty quilts and house belongings which represented so much work and patience were really treasures. I got quite enthused over the sight, and felt I must go right home and make me an Irish-chain quilt of dark blue and white cotton. Such things in the home give such a tone of thrift. If our grandmothers had not made the pretty and useful things that have come down to us, it would seem as if we hadn't a grandmake something to go down to another generation?
It was with a feeling of pride that I could point to sereral things about our home and tell of the years they had been with us. There is a feeling of reverence for those things which I never could set aside for the vandalism of the present day. Everything these day's is cheapened so that they will not last any time. I didn't discover that my later-bought towels were not all linen until
I was obliged to iron them one day. Upon I was obliged to iron them one day. Upon
inquiring of the merchants I found they inquiring of the merchants I found they is one thing I want truly linen, it is my towels; but even I could be deceived in them Old-fashioned things were so much better made, so true, that even after added years upon them they are still in fine condition and a little restoring makes them better far than new stuff which is cheap-too cheap to be good. There is a quaintness, too, about thein that has a charm, making the home vidual. So if you have any old-fashioned pieces put a way, bring them out and brighten pieces put away, bring the

A young girl contemplating a home of her own should take delight in getting together things that will be bright memories of the home she has left. Get your girl friends to gether and lare a "quilt-piecing"-of all the pieces you liave of your frocks from a little
girl up to your present ones. You will girl up to your present ones. You will
value it when you are in a home of your value it when you are in a home of your
own. This can also be a "nemory-party," letting each girl work her initials in the block she pieces. Then finl "some older lady who does the work nicely" to quilt it for you; she will do it for one dollar a spool of thread used, you finding all the material. of thread used, you finding all the mate B.
B. K.

## SORROW'S USES

The uses of sorrow I comprehend
Better and better at each rear's

## Deener and deeper $I$ seem to see Why and wherefore it it has to be.

Only after the dark, wet days
Do we fully rejoice in the sun's bright rays.
Sweeter the crust tastes after the fast
Than the sated gormand's finest repast.
The faintest cheer sounds never amiss
To the actor who once has heard a hiss.
To one who the sadness of freedom knows
Light seem the fetters love may impose.
And he who has dyelt with his heart alowe
Hears all the music in friendships tone.
So better and better I comprehend
How sorrow ever would be our friend
-Ella Wheeler Wilcos

## PEACHES, AND HOW TO USE THEM

BEFORE we take up the preserving of eaches for winter use there are serice, particularly if the fruit is not entirely perfect. All German and French housekeepers think a great deal of "compotes," as they call them, which are merely fresh fruits stewed. They make a nice dessert served cold with rice or blanc-mange,
and are always admirable for children, even very young ones after they hare enough teeth to chew, being all the better for a small amount of stewed fruit.
The best way to prepare your fruits is to make a syrup first. This is easily done by ne half cupfuls of sugar to two and one half cupfuls of water; stir until the sugar is dissolved, and when it has boiled fire minutes, counting from the time it begins to minutes, counting from the time it begins to
bubble, it is done. Into this syrup drop the bubble, it is done. Into this syrup drop the
fruit carefully, piece by piece, so that they fruit carefully, piece by piece, so that they
will not get crushed or broken. If you are will not get crushed or broken. If you are quartered. Let them cook until tender, then take the pieces out carefully with a
skimmer and place in the dish you will nse skimmer and place in the dish your will use
for serring them. Let the syrup boil down for a few minutes longer, to get a trifle thicker, and then pour it orer the fruit. Cooked in this way the syrup will be rery clear and the fruit semi-transparent.
favor in the South, called "matrimony," prepared from peaches, which makes a rich cold dessert. Pare and cut into pieces about
two dozen medium-sized peaches; corer two dozen medium-sized peaches; corer
then with sugar and let thenu stand three or our hours: beat into them quart of cream or rich custard, and freeze. The cream
makes it taste better than the custard and makes it ta
is simpler
Peach Leather.-They also have a way in the South of preparing peaches for winter use in pies, dumplings, or just stewed-
peach leather they call it. Ripe peaches are peach leather they call it. Ripe peaches are
skinned, mashed and pressed through a coarse siere. To four quarts of pulp add one coarse siere. To four quarts of pulp add one and boil for about two minutes. Spread the paste on plates and let it dry in the sun. Then the cakes are dry dust some sugar orer them, and keep them in stone jars until jou are ready to use them.
Peacif Marmalade.-Take rery ripe
peaches, skin them and remore the stones. A pound of sugar to a pound of fruit makes a good marmalade, but the best is made by using one aud one half pounds to one pound of fruit. After the peaches have remained in the sugar some hours boil them rapidly for fifteen or twenty minutes until they look
clear. Strain through a sieve and fill your clear. Strain throug a sleve and made your glasses. Made this way t.
Marmalade (for tarts, filling for layercake or turnover pies). - kin and cut up
small about six pounds of peaches. Crack the stones, blanch the nuts and mince them fine: add six pounds of peaches, put them into your preserving-kettle, and put over a
slow fire; stir steadily, and mash up all the pieces. When boiled thick and clear put away in glasses or jars. The kernels give a pleasant flavor
Preserved Peaches.-In all receipts of peaches the best way to do is to fill a wire moment in a pauful of boiling it for a the skin will rub off easily. When the skins are off, divide the peaches and take out the pits. Throw the peaches into cold water,
which will prevent then turning hrown. Put into a preserving-kettle three quarters Put into a preserving-kettle three quarters
as much sugar as you have fruit, alding a as much sugar as sou have fruit, alding a
little water to dissolve it. Remove the skum that may rise, and put in as much fruit as will float, but do not crowd it so that it will break. As the pieces become tellder and
clear place them in jars which have been
scalded out, and put more fruit in the syrup. When the fruit is all cooked, fill the jars full with the hot syrup, and seal up. See to it that both covers and rubbers have been put into hot water, too. Some people add a tablespoonful of brandy to some of the jars, tablespoonful of brandy to some of the jars,
but the brandy is not needed for preserrative purposes if you do not care to use it.

Sifeet Pickled Peaches.-These make one of the richest sauces for neat which we have, and are rery easily done. Many people leare the skins on and the stones in, but it is better to remore the skins if they are specked or tough. Allow about three and one half pounds of sugar to seven pounds of fruit. Put sugar into the kettle with a quart of rinegar and two ounces of clore and allspice and some sticks of cinna mon. After the sugar is dissolved boil them for about fire minutes. Stick a clore into each peach, and put a few peaches at a time into the boiling syrup. When they are tender and look clear, take them out, put them is jars, and cook ors. When the over the peaches in the jars, and seal up.

## A SELF-IMPOSED TASK

Now, dear, you must try to be more care ful," said Mrs. Spencer, as she handed Bob by his trousers with their fresh patch, so unless one looked rery closely: "I can' spend any more time on these right away; our trousers."
Bobby laughed. "Yes, mama, I know it Thank you for fixing 'em so nice. I'll try to be careful, but if I do tear 'em again to-day I'll mend 'em myself." And he hurried up-stairs to put them on in place of the dilapidated pair which he had been wearing while waiting for these to be repaired.
Bobby was pretty careless, and he kne
He couldn't bear to wear anything with a hole in it, either, and mama wouldn' hare wanted him to, but she did get almost discouraged sometimes trying to keep him whole and clean.
Pretty soon there was a rush down the stairs, followed by a whoop, which told that Bobby had spied one of his chums somewhere within the radius of half a mile. The
mother smiled patiently, and lumngly, too Bless his dear heart!', she said to herself "He's pretty noisy and careless, but I don' now how I could live without him, after all." In less than an hour she heard him come in and go quietly up-stairs. She expected to hear him rush down again in a few moments, but half an hour passed and he did not come -with a rush or in any other way. Then she became a little uneasy, and went upstairs. His door was shut.
"Bobby,", she called, gently
"res'm," came in subdued tones from ") Way.

May I come in, dear?
I-I guess not just now, mama; I'm again, quite mystified.
inother half loour passed, and still there was no rusli of merry feet down the stair way. But now it was dinner-time, and in He looked depressed, and he wore his bes trousers. All at once it came into Mrs Spencer's mind what the trouble was. She didn't say anything, however, and after dinner the little boy, who had been surprisingly quiet during the meal, went up-stairs again with a rery sober face. Mrs. Spencer felt sorry for him, but decided to wait a while before she interfered in any way. When three quarters of an hour had elapsed without Bobby's reappearance she went up-stairs once more.
"Can't nama come in now, dear?"
There was a moment's silence, then Bobby
said, "Ies'm: you may if you want to.
She opened the door. Bobby was sitting on the side of the bed with the perspiration running down his flushed face. He looked up with a faint, discouraged smile from his work on an ugly three-cornered tear in the unlucky trousers.
"I was climbing over the fence, and there was a nail in it I didn't see quick enough," em, you know, and I hated to ask you to again, anyway. I thought I could do it all right, but it's pretty hard work, and I'm right, but it's pretty hard work, and I'm
afraid they won't look rery good, either. I afraid they won't look rery good, ei
don't see how you mond 'em so nice.
Mrs. Spencer took the trouscrs out of the little worker's hands, with a kiss. "Well, sour best to help me and keep your word time over them, and if you'll try to be careful you may keep those on the rest of the da

Bobby's face grew bright. "Ohi, I'll be just as careful!" he exclaimed, adding, with a funny little laugh, "I guess I'd better not though," Ind in another minute he was speedin down the stairs as merrily as erer. peeding down the stairs as merniy as erer and sat down to her task, but she paused with the scissors suspended abore the funny wit of mending. She couldn't bring herself bit of mending. She couldn't bring hersel going to keep these just as they are," she finally declared: "they wouldn't last much longer, anyway, and Ill get him a good stou pair this rery afternoon to take their place." Bobby is grown up now, but among her treasures Mrs. Spencer still keeps a little pair of half-worn trousers, in which a big rent half filled with straggling stitches is a rery conspicuous feature. C. A. Parker.

## A HOME FOR EPILEPTICS

The first effort for the relief of epileptics was made by Pastor Ton Bodelschwingh, in Bielefield, Westphalia. The story of the rise and growth of an industrial colony there, and the work accomplished in lifting these suffering people from helpless misery into actire, hopeful, self-supporting men and women, is as suggestive as it is marrclous.
There were no imitators of this plan until There were no imitators of this plan until lipolis, and more recently the state of Jew Fork established the Craig Colony in Liringston county, purchasing of the Shakers eigliteen hundred acres of land in the Genesee valley. The Shaker houses hare been remodeled and others added, making in all a substantial settlement of brick buildings fitted up with modern comforts and conreniences, lighted by electricity and heated by steam.
fuch thought is given to bringing cheer into the life of these hopeless and helpless patients. A south porch inclosed with glass is prorided for sun-baths; the dormitories,
large, airy and scrupulously clean, are flooded with light, broad halls are hung with attractive pictures, and the verandas look over a pleasant and friendly landscape. Smoothly kept lawns, fine gardens, green fields, orchards, flocks of lazy sheep, and distant blue hills glistening here and there urroundings, as tranquil as they are beautiful.
Systematic, healthful work, which quickns the circulation, aids digestion and induces sound sleep, is considered one of the best remedies for epilepsy. Accordingly we find the epileptics, under the care of nurses and competent men and women, sewing, printing, gardening, scrubbing, cooking, washing, plowing the fields and gathering the harrests; in brief, supporting themelres. The patient once more feels the hrill of an active mind sending out currents of fresh ritality to strengthen and re-create the body, while the strengthened body in eturn gives new rigor to the mind. Cheerfulness is restored, ambition awakened, and life is once nore worth the living.
As rapidly as possible industrial training will be provided for boys in such trades as carpentry, cabinet-making, painting, shoemaking, tailoring and iron-work, while the women will have departments in rugmaking and willow-work. Suitable schools will also be provided.
Dr. Spratling, the physician in charge, makes a careful study, not only of the esults, but of the causes of epilepsy, and his statistics show a large per cent of the patients to be children of alcololic or halftarved parents. This gires enphasis to the fact so well known to every student of sociology that our country is suffering from the two curses of intemperance and indiges tion, both due to the ignorance of our iniddle and lower classes in preparing wholesome and wourishing food.
It is startling as a revelation to know that while our cattle and sheep are improving in breed, and even our garden stuffs are richer and more splendid than a liundred rears ago, our men and women are degenerating at a tremendous rate. The proportion of imbeciles is three times as great to-day as fifty years ago. In New York state alone there are twelve thousand epileptics. All over the land our large insane asylums are black finger-marks pointing to what shall be. Are we as a people awakening to the dren? With practical industrial our chil in our schools sliall we lay the foundations of a healthful and wholesome fome life liall we continue with scttlements and asylums simply to alleviate a drop or two in his great ocean of miser. and call our
sclves humanc?
Frances Bennett Callaway:

## THE CHILDREN'S MONEY

May I send a sort of supplement to "An Allowance for the Children," written by a well-beloved schoolmate of the happy old academy days? Some such allowances are from, partly paid back, but nerer settled fairly. If you mean to make independent businesslike children, do not always be meddling with their little treasures. When mother or older sister wants change or a little money to use, how easy it is to rob Willie or Carrie or some one! You do not like the word rob. But some day when the child goes to count orer his mones and it is not there, he is in great trouble financially for if he has for if he has saved it out of an allowance, or well to , he las done by self-denial. It is in a sarings bank-most of the bants requir ing a dollar to start with.

## a dollar to start with.

His and did not a regular allowance, but whels to gire her years old gare her a calf for she was six as she said. After awhile the father had a chance to sell the calf for six and one half dollars in trade, but he never paid Hatti the money. The father used to laugh when she talked about it, and said she had many times more than that in her clothing and care. Still, when she was well grown up she felt that her father owed her that amount. If she had had it and used it she would hare seen how small an amount six dollars really is: yet had she sared it, it would hare added to itself like a moss cor ered stone, until the interest pennies added would hare been quite a pleasure to her.

A mother among my friends who has little daughter gives her six cents a week, requiring her to pay her Sunday-school penny out of it. Very early that mothe fell into the habit of making the child pay fines out of the money for any misbehavior Sometimes for weeks ahead the allowance was "garnisheed." One morning Bessie had to bring to her mother two cents before breakfast, as a fine for something. As she
handed the money she said, bitterly, "I handed the money she said, bitterly, "I think this is a rery expensire family to lire in." Bessie was naturally as good a child as most are, yet that course, or something like it, inclines to deceit and eren white lies. early childhoo who had an allowanee from school a short time, as soon as he was old enough he set to work on the farm with his father. He soon was earning wages, though he never had any money. The boy was old beyond his years, and was a natural farme and money-naker, so his father said. The raised sheep and cattle market. The father often gave the son boy kept his own accounts strictly, charged himself with all the money spent on cloth ing or his necessary expenses. Before he was twenty-one his father said he had earned and sared a thousand dollars; that is, with the sale of stock belonging to the boy. His father nerer paid him a bit of money. When the boy was past twenty-one his father and he had a talk, and his father adrised his going off and starting to work for himself, which he did.

That father was not a bad man, nor dis honest as the world counts it; he simply "played" money with the boy. Such father and mothers wonder how their boys and girls go wrong, or where they could ge any line of trickiness or dishonesty as an inlieritance.

Do you say I must know a strange company of people? No, I do not; they are plain erery-day people, whom any one sees if they are only thinking of those things or studying methods with children and young people.
I heartily indorse the plea for an allowance I heartily indorse the plea for an allowance
for the children, eren among the poorest for the children, eren among the poorest
people. If you have little money, give a few

## WORTH LIVING

Is life worth living? Yes, so lon As there is wrong to right, Or tyranny to fight;
Long as there lingers gloom
Or streaming tear to dry.
One kindred woe, one sorrowing face That smiles as we draw nigh:
Loug as a tale of anguish smells Loug as a tale of anguish stells
The heart, and lids grom wet, And at the sound of Christmas bells We pardon and forget; so long as Faith with Free
And loyal Hope survires,
And gracious Charitr rema
To leaven lowls hires:
For Intellect or Will,
And men are free to think
Life is worth living still

## TESTS OF FRIENDSHIP

RARE indeed is that friendship which can give or receive adrice contrary to our own predilections. How often think this or that is doople say that they to one they love, and yet feel afraid to say so to the person most in danger. How rarely do we meet a man or woman who gladly receives any word of disapprobation of what they have planned or arranged.
He who has reached that place from which he can find it possible to say to us lovingly and without dogmatism that we are wrong and without irritation or argument calmly discuss the pros and cons of a doubtfu step, has come very near a right to be called "aperfect man;", and he who has attained that beatific condition in whicl this adrice and suggestion are welcomed and listened to with rational and grateful respect has to fear nothing from the attacks of exil spirit incarnate or inmaterial. If ever we find a sutestest of the depth and strength of the bond of friendship this surely should be its basis: "Can I bear that my friend should tell me I was wrong?", Yet what could be a more natural and vital outcome of strong and loving regard than the suggestion of coming danger to those who are threatened? Let two friends pass through this experience together and remain unrufled, and they need never fear other rupture of their aniting love.

Especially do women lack the gift of bearing what they are only too ready to call "interference." That they are overindulgent to their children, or mistaken in their
discipline or regimen; that they even fail to have chosen the most becoming dress for their danghter or the best school for their son makes them not unhappy, but angry and indignant. The merest intimation that some change might benefit the development of a child, or that he has a fault, will often obliterate the remembrance of years of steadfast kindness and end a friendship of great ralue.
Althongh when we talk of this pecaliar expression of human nature it sounds exag such easy proof and so daily in eridence that there is no rainsaying it What we desire of our friends is that they should always agree with us, constantly approve and admire us, and let us adhere to our worst follies without remonstrance
It seems possible that if we looked the matter "squarely in the face," and weighed the value properly of a disinterested, affectionate opinion, when given by those we ralue most highly, we might lift friendships above the common level of a pleasant companionship into a helpful partnership.
A dangerous phase of rery close feminine dislotal develops when conidences are discuss our own foibles, our own mistakes, share our hopes, our ambitions, our interests, our amusements, but let us shield our husbands from discussion. If our friend confides our revealings to her spouse, as, alas, friends will, we cannot complain; we will, but for him what and of our own free hil, but for him whe tate are that we do him no harm in our search for sympathy and eager craving for recognition and com prehension.
Let the deepest confidence, the most our friendships; but let our husbands' lives
be sheltered from any scrutiny they do no themselves invite. What exasperated us this morning, while smarting under disan pointment or irritated by contradiction, may when a very grave and formidable erro ing; by next week we will see that reaso or necessity ruled the adverse action, ani that we have robbed him we love best of a friend by giving an impression we eann friend by giving an
after ward eradicate.
And if our friendships are to be precious, And if our friendships are to be precious,
let them be inviolable. Let us beware of let them be inviolable. Let us beware of
half-confidences and half-way fidelity to half-confidences and half-way fidelity to
trusts. There is no excuse for telling other trusts. There is no excuse for telling other
people's secrets to our husbands or wives people's secrets to our husbands or wives
simply because we enjoy sharing our simply because we enjoy sharing our
thoughts and rousing their interests. That which a friend has said in our ears is a trust as truly and in the same sense as money placed in our hand or a jewel confided to our safe keeping. It is not less real because it is immaterial, and we are just as responsible, as custodians, as if we were strong boxes in a safe-deposit rault.-New York Evening Post.

## FAMILY WORDS FADING AWAY

There are a few grand old words connected with the family that are fading away, and which we all ought to do our best to restore to daily use. They are "kin," "kinsman," "kindred," "kinsfolk." They come from the oldest root in the whole Aryan stem, and they should not be pushed out of meaning and use. But "kin" is nearly gone "Kind" and "kindly" have changed their original significance, and instead of "kindred" and "kinsfolk"-words with a delight ful meaning-we have "relations," a wor which may mean anything or nothing. For family and to the whole "reorld. How this family and to the whole world. How this
undesirable change has come about Profesundesirable change has come about Profes-
sor Muller or Dean Trench may perhaps sor Muller or Dean Trench may perhaps
find out for us; we only recognize the fact. find out for us; we only recognize the fact,
But whether "kindred" or "relations," they are our miniature world, and the dis cipline involved in this connection is very complete and wonderful. What faith and patience and forbearance we show to the faults that we have been used to from infancy! Family affection is a divine thing, for it enables us not only to tolerate, but condemn to make us excuse in our own what we condemn in others. We think of and we talk of and we feel toward our kindred as they were different beings to the rest of mankind. If they are wronged, how bitterly we feel it; if they fail in anything, we are ready to blame any one and any event rather than believe they have failed deservedly In the bottom of our hearts we may not approve their conduct, or even enjoy their
society, but kin is less than kind when it is society, but kin is less than kind when it is
willing to admit the fact.-Amelia E. Barr, in Christian Herald.

## the peace of jesus

Some people are apt to belittle the peace of Jesus because they have peace of life. They have no bitter disappointments, no cruel wrestles, no crushing afflictions, no fiery temptations. The world has dealt kindly by them, and they have fitted into their environments. Moments there are when the sailors of the deep enry those that sail in the smooth, sheltered waters because they have not been driven to and fro on stormy seas and been in danger of the turgid swells. Other moments the sons of tribulation pity those unfortunates who have never seen the great billows lie down as a dog chidden by his master and God turn the storm into a calm.
One half of the Bible is a closed book to them that sit at ease becanse only a pierced hand can open the pages. The promises are for them whose hearts are sore; the invitations are to them who hunger. Jesus' peace was the best of all gifts to that handful of broken men in the upper room, whose firs step would be in the darkness, but it may not seem any great thing to the favorites of this world.
Yet it is not wise for any one to make too much of an outward peace, dependent on health of body, and the goods that are kept in barns, and suffrages of the multitude
row "Crucify," and on the whims of fickle, selfish people. Let a man be as far-seeing accommodating, politic,unserupulous as mas be, he cannot hope al ways to escape disaster, for this peace is as uncertain as the lorely Iediterranean. One day yon look out through the motionless foliage on a still
expanse of blue, and the next morning the orange-blossom is strewn upon the ground and the spray is dashing on your garden wall. "As the world giveth."-Ian Maclaren

## things every bible.reader should

 KNOW
## A day's journey was about twenty-three

 and one fifth milesA Sabbath-day's journey was about an English mile.
Ezekiel's reed was nearly eleven feet.
A cubit was nearly twenty-two inches. A hand's breadth is equal to three and fire eighths inches.
A finger's breadth is equal to about one incl.

## A shekel of silver was about fifty cents.

shekel of gold was eight dollars. A talent of silver was five hundred and thirty-eight dollars and thirty cents. A talent of gold was thirteen eight hundred and nine dollars. A pi
ents.
A farthing was three cents.
A mite was less than a quarter of a cent. A gerah was one cent.
A gerah was one cent. and five pints.
A hin was one gallon and two pints
A firkin was about eight and seven eighths gallons.
An omer was six pints.
A cab was three pints.-The Bible-Reader

## no Separation

The misgiving which will creep sometimes over the brightest faith has already received its expression and its rebuke: "Who shall separate us from the love of Christ? Shall tribulation, or distress, or persecution, or famine, or nakedness, or peril, or sword?" Shall these "changes in the physical state of the environment," which threaten death o the natural man, destroy the spiritual? Shall death, or life, or angels, or principalities, or powers, arrest or tamper with his eternal correspondences? "Nay; in all these things we are more than conquerors through Him that loved us. For I am persuaded that neither death, nor life, nor angels, nor principalities, nor powers, nor things present, nor things to come, nor height, nor
depth, nor any other creature, shall be able depth, nor any other creature, shall be able to separate us from the love of God, which is in Christ Jesus our Lord."-Henry Drummond.

## the secrets of long life

## Eight hours' sleep.

Sleep on your right side
Keep your bedroom window open all night.
Have a mat to your bedroom door
Do not have your bedstead against the Do
wall.
No
No cold tub in the morning, but a bath at a temperature of the body.

## Exercise before breakfast.

Eat little meat and see that it is well ooked.
Eat plenty of fruit to feed the cells which lestroy disease germs
Live in the country if you can.
Watch the three d's-drinking-water, damp and drains.
Hare change of occupation.
Take frequent and short holiday.
Limit your ambition, and keep your temper.

## A PRAYER

Oh Thou whose name is Love, who never turnest away from the cry of Thy needy children, give ear to my prayer this morning. Make this a day of blessing to me and make me a blessing to others. Keep all evil a way from me. Preserve me from outward transgression and from sect sin. Help me to control my temper. Nay I check the first risings of anger and sullenness. It give me that charity which suffereth long give me that charity Which suffereth long gentle toward all, loving even those who gentle toward all, loving even those who love me not. Let me live this day as if it
were to be my last. Oh, my God, show me were to be my last. Oh, my God, show me
the path that Thou wouldst have me to follow. May I take no step that is not ordered by Thee, and go nowhere except Thou,


Distribution of 100,000 Bottles of the

## FAMOUS RHEUMATIC REMEDY

## Dr. Swift Curing Thousands in

 Every StateRead What Sufferers Say-Then Send
for a Free Bottle Before the Distribution Closes

The free distribution of 100,000 bottles of Dr. Swift's famous Rheunatic and Gout Cure is working miracles everywhere.
No form of rheumatism can long withstand the great powers of the specific which is astonishing doctors and patients.
No matter how long you have suffered, Dr. Swift will cure you if a cure is possible. Mrs. MI. E. Geraud, Sedalia, Ohio, writes that she is considerably improved alreadyin one day
Mrs. Will Peterson, Taneyville, Mo., writes that the free bottle was used by her little daughter with remarkable results, and that Dr. Swift's treatment is the most wonderful in the world. The family doctor had previously failed, also scores of well-advertised remedies.
Chas. E. Sindorf, 221 Painter St., Greensburg, Pa., writes that he got immediate relief from the free bottle after all othe treatments failed.
These are but sample cases of hundreds constantly coming in from all parts of the country from the use of the free bottles alone. In many cases complete cures are obtained in two days, and the best proof of the superiority of Dr. Swift's Rheumatic and Gout Cure over all others is the fact
that those who have received the free botthat those who have received the free bot-
thes are writing their friends, urging them tles are writing their f
to send before too late.
By this distribution Dr. Swift will demonstrate to a certainty that he has discorered an absolute cure for the worst cases of rheumatism which are to-day baffling doc tors and hospitals alike. If you want a book of testimonials, it will be mailed on request; but don't fail to write at once for one of the free bottles. They contain full twenty-five doses, instead of the usual three or four doses sent out by imitators, and will be mailed free upon receipt of ten cents in stamps or silver to prepay cost
Address Dr. Swift, Swift Building, New York.
REGULAR PRICES- $\$ 1.00$ a bottle; three bottles $\$ 2.50-\mathrm{a}$ month's treatment. Guar anteed to cure or money refunded
AGENTS WANTED in every town to send for special terms showing how $\$ 182.00$ minn wim mix The Ideal Hat Fastener




THE RESPONSE
Give me an ere to others' fallings blind:
Jiss Smith's bonnet's quite a fright behi
Wake in me charity for the suffering poor Take from my soul all feelings coretous; Let lore for all my kind my spirit stir-
Save Mrs. Jones; Inl nerer speak to her: Let me in truth's fair pages take delight Make me contented with ms eartlly state I wish Id married rich; but it's too late: Hiss Bromn's as big a hypocrite as you lif find Help me to see myself as others see;
This dress is quite becoming unto me: Let me act out no falsehood, I appeal Make my heart of hunility the fount; How glad I am our pew's so near the front Fill me with patience and strength to wait
I know he'll preach till our dinner's late: Take from heart each grain of self-conceit;
I'm sure that gentleman must thiuk Let saintly wlsions be mr daily food;
I wonder what they' 111 have for dinner good: Let not my feet ache on the road to light;
Nobody knows how these shoes pinch a In this world teach me to deserve the next; Church out! Charles, do sou recollect the text
-Christian Register.
the fading of the substance
 that-"
"I want to know whose piccure that is!",
"Rather a pleasant-faced girl, isn't she?
$\qquad$ there?"
"Whose is it "It's a portrait of a girl I used to think "Her name, sir"."
"Well, you sat for it yourself, Maria, about nineteen years ago: but, to tell the truth, I
almays did thiuk the 'pleasing expression' was a little overdone. Put on orour spectacles
and look at it again, and then compare it with the reflection in that mirror over there,
and see-what are sou getting mad about?"and see-what are sou getting mad about?"-
Chicago Tribunc.

## HIS FAMILY DOCTORS

 When the ners bor got iuto the school-room he was, of course, pestered with numerousquestions bs the other scholars as to his name, his parent's profession, the amount
of his pocket-money. and various other matters about which bors are curious.
"Who's your famils doctor?" asked a biz
$\qquad$
$\square$ "hy, you didn't have no medicine to take?
"Didn't I?" was the sarcastic reply hinncopath. mother's an ailopath, my sister
Jaggie's joined the ambulance, grandfather inelleves in resuscitatiou from drowning,
grandmother gues in for every quack med-
icinc that's advertised, my uncle sandy's a
$\qquad$
A dissertashun on bicikels
lon. Thare's more matches made a-biking thau ennywhare else. With ur best girl on a tandum ur chansez ar to to one. Go ahed, unrelieabel fello and a punktured tier is not Biking xpands the muscels. espeshalls when
Bikin he masheen lolapsiz ahout ate miles from
an Evasive answer
John," said a clergrman to his factotum, "I shall be rers buss this afternoon, and if
any one calls I do not wish to be disturbed." "All right, sir. Will I tell them you're not "Ho. John. That mould be a lie."

ad called.er-time John was asked if any one
"And what did," he said. clergyman.
"L gave him an evasive ansmier."
"He asked me was ser reverence inc. an. hoot-ow1? '" -Loudon Answers.

## AFE

First salesmoman-"Did sou know that
Clara Lacer is engaged to Mr. Strutter, the fioor-walker?",
Second saleswoman-"You don't sar!". First saleswoman-"Tes; and he is awfully Jealous of her. He had her transferred from Second salestroman-"'Goodness! Why tie

First saleswoman-"Because no men go here, sou knort!"-Puck.

SOCIETY NEWS IN INDIA and Mrs. Thambynayagampillai are now or a risit to Kovikudyiruppu. Mr. Thambs anayagampillai and son-in-law of Gr. S. An-bulingammudelliar.-Westminster Gazette.
late in the evening
Grandma Nerrcomb (hearing that her son after breaking his leg had come down with
measles)-"I wonder what will come next?" Dorothy (sleepily)-"To-morrort, I dess, grandma."-Judge.

## LITTLE BITS

Although a moman may possess

> The daintiest foot in town. You'll find it quite immovabe

Little boy (mho has just had a tumble)-
hen you ain't on it."
She is a little tot, but old enough to ask
questions. Recently she was out ridlng with her mother, and in passing a field noticed ser-
eral cows grazing. "Say, mama," said she,
"do cows ever blow their horns?" Whereapon the mother nearly fainted.-Elmira A young physician was once called in by a gentleman who had a very sick mother-in-
la $\pi$. After looking into the case carefully the young M.D. called the gentleman aside and said:
".Well, the only thing I can suggest is that
sou you send your mother-in-law to a warmer cllThe nan disappeared and came back he heart.".-Argonaut.



This wagon is made of best matcrial through1


## GOLD THE BEST Washing Powder

IF AILING Wynnotennloy


## 1,000

## FAVORITE

RECIPES in the

## Standard

 Cook BookThe Standard Cook Book is the prod 1 uct of many good cooks, the rec ipes being selected from orer 20,000 submitted by experienced housekeep-
ers from all parts of the country, ers from all parts of the country in a prize contest. Over 1,000 of the choicest of these were selected by ipes have been printed in a handsome book of 320 pages, each page $5 \frac{1}{4}$ inches wide by $7 \frac{1}{2}$ inches long. Already orer 500,000 copies hare been sold. No
French "stuffs," no fancr "fixin's." no recipes from men cooks, in the Standard Cook Book. They are all tested recipes, known to be excellent for plain, wholesome, delicious home
cooking. With this book in hand it is an easy matter to arrange a splencrets of good cooking. The book is printed on good paper, and to any housekeeper is worth one dollar.

We will send the Farm and Fireside one year and the Standard Cook Book for only

## 35 Cents

## PATTERNS OF SEASONABLE GARMENTS

We offer this month a selection of up-to-date patterns suitable to the season. The patterns are full and complete, being especially suited for home dressmaking.


FREE We will give any THREE of these patterns for TWO yearly subscribers to Farm and Fireside.


Our war with the Filipinos is the burning question of the hour. It is obtaining greater importance day by day, and every American citizen with the welfare of the country at heart should become thoroughly familiar with the conditions now existing.

```
                                    #%%%%゙
```

To fully understand the designs of Aguinaldo, the nature of the Filipinos, the task set for our army and the difficulties in the way of its accomplishment, one must study the local conditions and the local coloring of the Philippines. To do this to best advantage requires

## A JOURNEY TO THE PHILIPPINES

To make this journey in person costs money-lots of money - but you can make it by means of our "Photographic Panorama of Our New Possessions" without cost.

## Traveling: By Photographs..

The next best thing to making a personal visit to the Philippines and studying local conditions is to have them described and fully illustrated by means of Photographs.

Not only can you make the Journey to the Philippines, but also to Cuba, Porto Rico and Hawaii, with side trips to St. Thomas and the Barbados. You may also take a delightful Cruise with the $N a=y$ and spend some enjoyable days in Camp with the Avmy'. All this is provided for by


Main Street in the Business Quarter of New Manila

# OVER 300 MAGNIFICENT ILLUSTRATIONS 

ACCOMPANIED BY FULL DESCRIPTIONS


A Carabao and Native Boy, Manila

The reading matter in the book gives a brief, interesting history of the islands, descriptions of the pictures and information on climate, population, products, commerce, resources, etc., etc., of Porto Rico, Cuba, Hawaii and the Philippines. Because we print the book ourselyes and do not make any profit on it at all-it is the subscriptions and clubs that we want-explains why we can offer it at such a great bargain. Full and entire satisfaction guaranteed or your money refunded.

We Will Send This Book, and This Paper One Year, for........

40 Cents

We Will Give This Grand Book FREE for a Club of TW0 Yearly Subscribers to the Farm and Fireside Postage on this book Daid by us in each case

# EXTRAORDINARY INDICEVEVTTS FOR TRIAL SUBSCRIPTIONS 

IIN order to introduce Farm and Fireside to thousands of new homes during the next few months we make the following GRAND COMBINATION OFFER: We will send Farm and Fireside to any address for the remainder of the year and give the subscriber choice of any one of the following books, BOTH FOR ONLY 25 CENTS.


#### Abstract

"PHOTOGRAPHIC PANORAMA ${ }_{a}^{\text {of Ourvelous book ofs of scenic }}$ beauty, fascinating entertainment and valuable instruction. Turning its pages is like the passing of a grand panorama. Destiny has suddenly made the United States an empire; the fortunes of war have added to her care and ownerslup rich tropical islands in the Atlantic and Pacific oceans. They are Uncle Sam's, yet they are strangers, for want of accurate pictorial knowledge of them. This want is now fully supplied by this new book of over 300 plotographic views. While enjoying these realistic pictures important historical events are painted on the mind, nerer to be forgotten. Many of the pictures are a half to a full page in mind, never to be forgotten. Many of the pictures are atis. Satisfan guaranteed. size. Each page is 8 by 11 inches, printed on fine paper


#### Abstract

"GLEASON'S HORSE BOOK" Professor Gleason is renowned expert and successful horse-trainer of the age. For breaking colts, conquering vicious horses and training horses he is a perfect wonder. His metlods are simple and sensible, and can be put into use by any young man on the farm. The book contains 130 illustrations and 415 pages, each page $5_{3}^{-1}$ inches wide by $7_{1}^{2}$ inches long. It tells all about the horse. There are chapters on "Educating the IIorse," "Teaching Horses Tricks," "How to Buy," "How to Feed, Water and Groom,"" "Breeding and Raising Horses," "Breaking and Taning," "Methods of Detecting Lnsoundness," "The Teeth," "Horseshoeing," and "Diseases of the Horse." This book, in expensive binding, was sold by agents for \$2 a copy.


## "SAMANTHA AT SARATOGA" and "SAMIINTHA AMONG THE BRETHREN"

These two excruciatingly funny books by that clever humorous writer, "Josiah Allen's Wife," are decidedly her very best productions, and they are sure to
... MAKE YOU LAUGH UNTIL YOU CRY
"Samantha at Saratoga" was written under the inspiration of a summer season 'mid the world of fashion at Saratoga, the proudest pleasure resort in Anerica. The book takes off the follies of fashionable dissipation in the author's inimitable and mirth-provoking style. The story of Samantha's "tower" to Saratoga, accompanied by her "wayward pardner," is extremely funny. "Samantha Among the Brethren" was written to
exhibit the comic side of the men's argument against exhibit the comic side of the men's argument against women "a-settin' on the conference," and she does it to perfection. The learned Bislop Newman said, in speaking of this book, "It is irresistibly humorous and beautiful; the best of all that has come from the pen of 'Josiah Allen's Wife.':" Samantha's gossip about the "doin's" of Josiah and her neighbors and the tribulations of the women-folks in raising money with which to paper and support the "meetin'-house" are just too funny for anything.


## THESE TWO "SAMANTHA" BOOKS ARE ILLUSTRATED BY

## OVER 200 COMIC PICTURES

 SIMILAR TO THE ONE SHOWN HERE The pictures in these books are printed on better prper byslover presses, therefore they shor up jar better and clearer in the books than the one shown in this advertisement.
Over 100,000 copies of each of these books, in expensive binding, were sold for $\$ 2.50$ a copy. We here offer special premium editions of these two famous books and each one contains every word and every picture the same as in the $\$ 2.50$ editions. These books are bound in separate volumes, and are printed on good paper Size of each page, $5_{2}^{\frac{1}{2}}$ inches wide by $7_{2}^{\frac{1}{2}}$ inches long.
Children and grown people alike read with rapturous delight these tro "Samantha" books. They are writ ten in a vein of strong common sense, as pure and innocent as the prattle of a child.

## Remember

Any one of these four books, and Farm and Fireside, for the remainder of the year
...BOTH FOR ONLY 25 CENTS

And in addition we make the following exceptionally liberal offers of PREMIUMS TO CLUB-RAISERS: For Only Ten Subscribers at $\mathbf{2 5}$ cents each, as offered above, choice of any one of the following premiums.

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## A GENUINE SOLID GOLD RING

All of these rings are warranted solid gold. All of the settings are open on the back so they can be easily cleaned. These same rings sell for $\$ 2.50$ and upward. No. 345 , if bought in a city jewelry-store, would be considered cheap at $\$ 3$. Warranted to be solid gold and to give full satisfaction or money refunded. The stones set in the rings are only imitations, yet are so perfect that none but good judges can tell the difference.

No. 342-A solitaire imitation Diamond in Tiffany setting.
No. 343-An Emerald (green); a very popular riug.
No. 344-Has three Garnets (red), one large and two small ones. No. 346-Oue initation Dtannond and oue Garnet; very stylish. No. 347-A Sapphire (blue); a very beautiful ring.
No. 348-Two Turquoises (liglit blue), one sman Pearl on each side. No. 348-Two Turquoises (light blue), one small Pearl on each side.
No. 349-One Garnet and one Topaz (lirown); pleases little girls. No. 350-Three Pearls; an attractive ring.
NOTE that the above-named stones are imitations and not real Diamonds, Garnets, Emeralds, Sapplires, Turquoises, etc.
TO FIND THE SIZE OF THE RING YOU WEAR, take a narrow strip of stiff paper that just meets around the finger you want to fit; lay this strip ou measure
shown here, one end at $A$ : the other end shows the size to order. Each ring is made in seren sizes only. Always give size you want

Either TEASPOONS, DESSERT=
SPOONS or
TABLESPOONS
Just like this small cut


This silver-plated ware can be used in cooking, eating and medicines the same as solid silver. Because we buy our silverware direct from tlie factory in enormous quantities (nearly 200,000 pieces last season), and sell it without profit in order to get subscriptions and clubs, is the reason why we can afford to offer such bargains. Pure Coin=Silver Plating The base of this ware is solid nickel-silver for the base of silrer-plated ware, because it is so hard and so white that it will never change color and will wear for a lifetime. The base of all this ware is ARD amount of pure coin-silver.
Will Stand Any Test To test this silver-plated ware use acids or a STANDARD amount of pure coin-silver and the base solid white metal, and If returned to us we will replace free of charge any piece of ware damaged in
making the test. ALL OF THE WARE IS FULL REGUL.ITION SIZE.

## A PEARL=HANDLED, GOLD=TRIMMED PEN....

This pen has a pearl handle, gold nose and solid gold pen. Length $6 \frac{1}{2}$ inches. Sells in stores for $\$ 1.50$.

For 20,30 or $40^{\circ}$ subscribers choose any combination of premiums equaling the number of subscribers you have. IT IS AS EASY AS PLAY to get up clubs under this unparalleled offer. Start in at once and win one or more of the premiums while the offer holds good.
 SELECTIONS 舄
OUR FOREIGN COMMERCE FOR 1899 R foreign commerce in the fiscal year 1899 will be even more remark-
able than that of the wonderful year, more than $\$ 100,000,000$ a month, and were nearly $\$ 200,000,000$ greater than those of any preceding year in our history. And this
happened when the whole world aside from happened when the whole world aside from
the United States was short in breadstuffs and was looking to the Lnited States wit an unusually good crop for its supply. In 1599 , with the world generally well supplied with its own breadstuffs, the United States continues to export at the rate of more than $\$ 100,000,000$ a month, and up to derful figures of the corresponding months
of last year.
This remarkable achierement of keepin up the record of total exports in the face of stuffs and cotton is due to the treat oread of Awerican manufacturers in foreign fields. The detailed figures of the Treasury Bureau of Statistics, covering the ten months ending mith April, 1899 , shotr that the exports of $\$ 275,978,300$, against $\$ 234,737,002$ in the corresponding months of last year, an increase of seventeen per cent, while the exports of
products of agriculture were $\$ 6 \bar{\tau}, 5 \pi 3,345$ against 8719012 cil a decrease of nearly six per cent. - Thus agriculture has lost $\$ 11,000$, 000 in the year's export, while manufactures have gained $\$ 11,000,000$.

## What Presidents cost

Presidents "come high, but we hare got to a chief execntive
His salary is $\$ 50,000$ and "found," as our Western neighbors say. The president's finding is rather comprehensive, covering about erery possible requirement of a famils. His private secretary, the clerks, door-
keepers, messengers and steward and three other serrants cost us $\$ 33,865$ a year. The there is a contingent fund of $\$ s, 000$ a year,
which the president may use according to his discretion
In fnrniture and repairs to the White House the sum of $\$ 16,000$ more, to be used by the direction of the president, is prorided for by the nation, and is always expended necessary repairs to the greenhouse there is

Altogether the presidential "inding" an nually amounts to the snug sum of $\$ 64,565$, nearly $\$ 15,000$ a year more than his salary
The two aggregate $\$ 114,865$. This is an imposing aggregate, but it is small compared with other presidents. The president of the a year, \& 32, tso for contingent purposes, and a handsome house, rent free. So we get our president rather cheaply.-Boston Journal.

| NATIONALITY IN NEW YORK <br> There are about a dozen "quarters" in New York. The Jewish quarter is east of the Bowery, in and around Ladlow and Hester streets; the Italians have two quar ters, one in Mulberry street, the other in First arenue at about 110th street ; the Ger mans have a large quarter near Tompkin Square; the French still live around th streets just south of Washington Square The Chinese live in lower Mott street, Pel and Doyers streets; the Bohemians and Czechs live near First arenue and Seventh streets. Many Scots live around Jackson Square. 'The negro quarters are west o Sixtll avenue, between Twenty-seventh and Thirty-third streets, and around 109th street on the east side ; the Greeks live in Roose velt street, the syrians in lower Washington street. There are no well-dcfined limits to |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

growth of the english language to be trusted, the English language is devel-
oping more than any other, past or prescnt.
White the German contains 80, ,on words, the White the German contains 80,000 words, the

Emeralds, some of which are very fine, are found in the district of Ekaterinburg, along the banks of the Tokora river, about fiftyTininles from the capital of the district, Mining for this precious stone began in 1841, and at the beginning gave very good results. The first emerald was fonnd by a peasant named Maxim Kojernikow, in 1839, while he was examining the roots of a tree which had been uprooted by a storm. It is pretty cerkind had already been made in 1669. It is eren possible that finds had been made prior to then, as the Czar Boris Godounow presented the Fenetian engraver, Francis Ascentini. with a sable fur and one hundred ring. The finest emeralds wre found when these stones were being mined for the ac count of the government. During this period that is, up to $1862-5,600$ pounds were ex-
tracted. The gorernment afterward farmed out the mines to prirate parties, who were not successful. The emeralds of superior quality have been found near the surface of the soil, while those found in deep ground
were of inferior quality.-A Iovoe Tremya.

## ATMOSPHERIC HUMIDITY

The wet-bulb thermometer, for determining moisture in the air, is made and used as follows: Provide two thermometers and tie a bit of the thinnest muslin neatly around the bulb of one of these and keep it soaked the water and whirl it briskly throngh the air for two minutes if the air is very dry, and for three or fonr minutes if the air is rery moist. Read it quickly, and it gires the temperature of a thin layer of water eraporated under the influence of the wind produced by the whirling. The dew-point of the air in which the thermometer is whirled is about as far below the wet-bulb as this is below the temperature of the drybulb similarly whirled and read rapidly. The two thermometers may be hang side by ide on a short piece of string for conve-psychrometer."-Monthly Weather Review.

Stevenson and the begGar An American who risited the Sterensons ractice of begging. Ther boldly ask for hatever be found. The norelist became tired of this practice, and therefore said one day to a Samoan friend who had acquired from him necktie, handkerchief and some other The Samoan made a hasty surrey of the room.
"There is the piano," suggested Mr. Ster"Yes," replied the natire, "I know, but," he added, apologetically, "I don't know how to play it."-Saturday Erening Post."

## RECENT PUBLICATIONS

urpee's catalogue of Scotch collie dogs and fanc
Stoddard Mifg. Co., Dayton. Ohio. Descriptiv dircular of the Triumph spring pressure hoe and Sprague Commission Co., 21 S South Water street.
, Chicago. Ill. "Hints to Poultry Breeders and
Shippers." Hydraulic Engine. White House Paint Company, Baltimore, Md oinmon lime-was
$\qquad$
$\qquad$
$\qquad$
and butter worker. Creamery and dairy sizes.

College. Le banoul, Pa. Pamphlet of information

BUCKEYE STEEL FRAME
 (a)

## 


. $\$ 5.95$ Buys a Man's All-Wool Suit

day in the year. It will earn the interest on the money every day it is used. Spreadsall kinds ndi. Ne make a special drilling attachment for this machine; whic
Kemp \& Burpee Mifg, Cor, Box 17, Syracuse; N, Y,


## A Dictionary Bargain...

 by us. It represents the Living Language of the English=speaking world.and clubs.
608 PAGES AND 1,265 PICTURES
 35,000 WORDS Most neople use less than a thou-


Library Edition This editlon of the DictionHas red edges, and is stitched with tinen thread so
Hest one year, $\$ 1.75$. Order by Premium No. 54 .
FREE The Linrars enition civen Free as a premium for a
clab of sir yearly sulscribers io Farni and Fireside.

## Tr Rumgundion.



Vol. XXII. No. 22
THE ITALIAN PEASANT

W
by edward a. steliner "I the American tourist says, means that he will go to Rome, to Milan, to Florence and Tenice He will see cold, damp churches, picture-galleries and decaying palaces, but he will not see Italy. He will see a matchless sky, so blue that the stars stand out in wondrous set witching the senses; he will see a display of the most magnificent art products which the the most magnificent art products which the
world contains; but if he wishes to see world contains; but if he wishes to see
Italy, the real heart of the couutry, he must Italr, the real heart of the couutr, he must
leave the highwas, trodden by multitudes of leave the highway, trodden by multitudes of
hurrying tourists, forsake the English or American hotel, where there are more native Americans than oue would meet in a Chicago hostelry; he must take a seat in a ricketr, dusty omnibus, perchance be crowded in between a fat priest and a lean peasant, inhale the fragrance of garlic, endure the tortures of the multitudes of fleas which come like one of Pharaoh's plagues upon
erery? wave of the plentiful road-dust, and drive deep, into the heart of the country, where the whistle of the locomotive ne ner, and where the ever-present, all-perrading ever-present, all-perrading of tourists has not robbed the peasant of his pictur esque garb and of his sim ple habits.
From the distance an Italian village is a thing of rare beauty; uestling upon a hill, wrapped in the glory of an early sum mer's suu, exhaling the rich perfune of its orange gardens, casting the deep shadows of its olive groves, hedges of fig-trees each little farm, the heavy cliurch-steepie seeming to tand guard, and towering bove the houses, which ling to the-hills like swal
Upon a nearer view,
howerer, much of this beauty vanishes. The odor of orange-blossoms mingles with the Earlic. The houses'so picturesque from a dis tance look dilapidated. Half-naked children play in the dust, and pigs appear at the front door, followed by the nimble goat, whicls lend ueither grace nor fragrance to the scene. The church is well kept, but the casthe is in ruins. The peasants that you ureet are picturesque but indolent, and in many places are half starwed, although the land cens to be flowing with milk and honey
I have bought ten figs for a hatf-cent luseious melon for a penny, and yet children are so hungry that the merest crust of bread is fought for by pigs, goats and children, and generally the goats get it
The reasons for such porerty in this coun try flowing with milk and honey are tions are simply ruinous. The soil in most places is owned by the lord or hy the church, and a fourth of its product goes as rent to the owner. Again, the taxes seem unbearable-taxes on every olive-tree that grows; on goats and pigs and children: talac* when you are born, and taxes when you


## WESTERN EDTTION

AUGUST 15, 1899

die; tases if you remain single, taxes if you must see him in the market of some large marry; taxes if you kill your live stock, taxes
ii you lieep it alive; tases on flour aud sugar; in fact, nothing is untaxed except the air, and that is a great wonder and something for which to be thankful.
Another reason for the porerty of the country is in the lack of enterprise on the part of the farmer. Olive-trees and rineyards grow as the Lord uade them, and in many places no new trees have been planted for decades except as merciful Providence has scattered the seed orer the country. Still a greater foe to Italian prosperit is the a greater foe to Italian prosperity is the lottery. Twice a week there is a drawing, and you can begin to ganmble with
four or five cents, and end by begging on four or five cents, and end by begging on
the streets. The lottery is conducted by then the streets. The lottery is conducted by the state, and has the sanction and co-operation of the church. It is a mania among the people to bet upon certain numbers which, if drawn, will make them rich, but the chances are all in faror of the governmeut. For instance, if a person dreams about a fish, a snake or an old woman-in fact, about anything-he consults the dream-book, finds the corresponding number for these things, places his small change upon them, and city, say Tenice. Hither he comes by boat,
from his little farm surrounded by the wa. from his little farm surrounded by the wa. saw him. The sails of the peasants' hoats are of many shapes and colors, patched and painted artistically; not like gray gulls as are our fishing-boats on the Atlantic, but like parrots or birds of Paradise, decked with wondrous colors and trappings. One has a rudely drawn sun, and the fiery red sail not the lips of the man in the sun drawn upward in a smile, giving bim the appearance of a fat man on the Fourth of July in the gory of Bengal lights. Another fisherman las a cross, somber and severe, drawn on
his sails; a pious man, no doubt. His neighbor las his satanic majesty roasting some unlappy mortals-a floating tract, which every oue must see, and some might heed. As soon as the peasants strike, land they begin to make a noise, for the Italian mar ket without noise would be like a circus parade without a calliope. Far, far away you the musical dash of the sea, like a thousand instruments being tuned at one tine. Oceu-
luck which will come to you if you wear then, and the ill luck they will keep away. pread out upon the ground are fantastic forms of macaroni and spaghetti, all kinds of animals made of flour and covered by dust to remind them of otheir inortality. The market over, the peasant goes to his boat, his wife doing the rowing while he smokes a cigarette and hums ballads. We ollow their gliding boat out into the lagoon, into the glory of the setting sun, and weep over Italy, so beautiful and yet so ugly, so Christian yet so pagan, so rich and yet so poor, so joyous and yet so sad, for Italy is a dying country. Signs of decay are seen in city and village, among priests and people. Italy is a corpse, a beautiful corpse, which yet may hare its resurrcction if these strong, sturdy peasant people could roll away the stone from their tomb, and with the dawn of day admit the flooding light of a truer and better civilization and a purer faith.

T
HE Venice that you see in the sunlight of a summer's day-the Tenice that bewilders with her glory when you land at her water-gate; tbat delights with her color when you idle along the river; that intoxicates with her music as you lie in your
gondola adrift on the gondola adrift on the lagoon. The Tenice of mold-sta in of quaint calfi and arching bridge; of fragra arching cense, cool, dim-lighted church and noiseless priest, of strong-armed men and graceful women -the Tenice of light and life, of sea and sky and melocy. No pen alone can tell this story. The pencil and palette must lend their touch when one would picture the wide sweep of her piazzas, the abandon of her gardens, the charm of her canal and street life, the happy indolence of her people, the faded sumptuousness
lives in great hopes until the drawing-day,
when, being disappointed, he goes home to when, being disappointed, he goes home to dream and bet and hope again. Any important circumstance yields numbers for the lottery. If a person happens to fall down stairs, say twenty steps, number tirenty is alise, hurt number. If a person is dead or alire, hurt on the knee or on the head, all
these things vield numbers for the lottery, and keep the people poor. The drawing is usually held on Sunday, and the frawt thing that the peasauts row whe the first thing that the peasauts do when they leare the
church is to go and see the numbers which church is to go and see the numbers which
have been drawn. have been drawn.
Besides being poor, the Italian peasant is ineducated and grossly superstitious. Newspapers in many villages are unknown articles, and the few books found here and there are either stories of martyrs or robbers, both of whom the peasant delights to honor and know about. Every village has its own saint, whom it reveres almost like a god, and, whom it honors every year with especial festivities. Religiously the Italian peasant is more pagan than Christian, living according to the ligbt which he as, and that is not very great
To see the peasant in all his glory you
ying a space half as large as a town square nore market, crowded by a thousand or many colors, tangled and snarled, and each ne singing his own tune, and singing it all the time-the shrill-soprano of the romen extolling the rirtues of their peaches and grapes; the alto of the peasants from the islands on the lagoon calling attention to the fruit of their henneries and holdiug it up for your admiration; the bass of the fish-seller, who was fortunate enough to catch a tunafish, Italy's great delicacy; and though people stumble over one another to hily it, he still calls without ceasing, "Tuma, the nices tuna of the sea; tuna, tuna, come and see it, come and buy it; tuna, tuna, tuna." By his side a small boy has a few barboni, a small trout-like fish, and the way he yells and calls attention to them makes you think that these must be the few fish upon which the niracle was performed in the desert place-only the miracle in this case works the other way, for they are drying up every minute and arowing smaller Sellers of minute and growing smalle Sellers of amulets, luck-stones and scap ularies hold them up to your gaze, press
them to your heart, and prophesy all the
given to Tenice a prominent p!ace among the cities of the earth, it is because, in this selfisl, materialistic, money-getting age, it is a joy to live, if only for a day, where a song is more prized than a soldi; where the poorest pauper laughingly shares his scanty crust where to be kind to a child is a habit, to be neglectful of old age a shame; a city the relies of whose past are the lessons of our future; whose evers canras, stone and bronze bear wituess to a grandeur, luxury and taste that took a thousaud years of en ergy to perfect, and will take a thousand year's to destroy.-From "Gondola Days."

## VENICE, THE WIDOW



FARM AND FIRESIDE

## The Crowell \& Kirkpatrick Co.

\section*{| 147 Yassen Street |
| :---: |
| Ye\# Yoris cit | <br> Springfield, <br> $\underset{\substack{\text { 204 Darbonn Streeth } \\ \text { Cuicago Illicis }}}{ }$ <br> }

## TER.MS OF SUBSCRIPTION

## One Year :- $\quad \begin{aligned} & \text { (24 Yumbers) } \\ & \text { Six Months } \\ & \text { (12 Jumbers) }\end{aligned} \quad 50$ Cents 30 Cents

 Subscribers reeeive this paper twice a month. which
is ㄸice as ofen as nost other farul and fanvily jour.
sals are ssumed

##     <br> Postage-stamns will be reeeived in parment for sub- scriptions lu sums less than one dolar, if for evers  <br> The date on the "Vellow label" shows the time to which each snbscriber has paid. Thus: ang99 means that the suhbscription is pald up to sepp9, to September, 1s99, and so on. <br> When monev is recei ved the date will be changed within four weeks. whlich will answer for a receipt.

 When renewing sour subseription, fio not fail to sayit is a renewal. If all oulr subscribers will do this,



The Advertisers in This Paper
 intentionally or knowingly inserters. avertivisinents from
any but reliable parties; if subscribers find any of them
 as advertisers oft
|y/ffr-

Ix his excellent volume, "The War with Spaia," Senator Lodge prefaces an outline of our military operations in 1898 with a
forcible criticism of our military srstem as follows:
"The American navy was ready, as ships of war must alwars be, and when the President signed the Cuban resolutions the
fleet started for Cuba without a moment's fleet started for Cuba without a moment s
delay. With the army the case was wide! 5 delay. With the army the case was wide! $\bar{y}$
different. Congress had talen care of the diffierent. Congress had taken care of the
army in a spasmodic and insuffient manarmy in a spasmodic and insufficient man-
ner, consistently doing nothing for it except ner, consistently doing nothing for it except
to multiply civilian clerks and officials of all kinds, who justified their existence by a
diligent weaving of red tape and by mag. diligent wearing of red tape and by mag.
nifying details of worl, until all the realities nifying details of worls, until all the realities
of the service were thoroughly obscured. Thus we had a cumbrous, top-heary system of administration, rusted and slor-moring, accustomed to care for an army of 25,000
men. Then war was declared. An army of 200,000 rolunteers and 60,000 regulars was suddenly demanded, and the poor old system of military administration, with its coils
of red tape and its rast clerical force deof red tape and its rast clerical force de-
roted to details, began to groan and craba, to break down liere and to ston there, and
to produce a vast crop of delays, blunders, and what was far worse, of needless suffer-
ing, disease and death to the brave men ing, disease
in the field.

## "Thereupon came great outcry from nelvs.

 papers, rising even to hysterical shrieking in some cases, great and natural wrath and fault-finding froms senators and repre--sentatives. Then came, too, the rery humail sentatives. Then came, too, the rery humall
and general desire to find one or nore $=$ capegoats and administer to them condign pun-
isliment, which would have leeen cminently ishment, which would have leen eminently
soothing and sati-factory to many personsjust in some cases, perlaps, unjust in most,
but in any event of little practical value. There was, undoubtedly, a certain not rerys
large percentage of slortconings duc to inlarge percentage of slortconings duce to in-
dividual incapacity which should lave hece sharply rooted up without recard to
personal sensibilities. But the fundamental
cause of all the failures, blunders and need less suffering was a thoroughly bad srstem of military administration.
" In inferior man can do well with a good sritem better than a superior man with
bad system, for a good administrative or ganization will go on for generatious some tines, carrying poor administrators with it.
But a really bad system is well nigh hope es But a really bad system is well nigh hope ess,
and the men of genius, the Pitts, the Car: nots and the Stantons, who, bringing order cout of chaos and strength out of weakness, produced only by the long-continued stress of a great struggle and after bitter experi the outset of our its harshest lessons. At and men laid our war we had a bad system, faults of system and organization which faults of system and organization which
were really due to the narrowness and indifwere really due to the narrowness and indif-
ference of Congress, of the nemspaper press, ference of Congress, of the nelrspaper press,
and of the people, running back orer many years. To-day the srstem stands guilty of the blunders, delars and needless sufferings and deaths of the mar, and war being over reforms are resisted by patriots who have so little faith in the republic that they think a properly organized army of 100,000 men puts it in danger, and by bureau chiefs and their friends in Congress who want no change, for reasons obrious if not public-

T HE Cornell experiment station, Ithaca bulletin concerning patents on gravity or dilution separators that ought to be widely read in every community subject to the raid of the "dilution separator sharks." This
bulletin, No. 171, sars: bulletin, No. 171, says
"In bulletin No. 151, published in August, 1898, the efficiencr of these creaming derices was summed up as follows:

Gravity or dilution separators are mere Ir tin cans in which the separation of cream
by gravity process is claimed to be aided by dilution with water.
*- Under ordiuary conditions the dilution is of no benefit. It may be of some use When the milk is all from "stripper" cors, not be secured -" 'These cans
Whese cans are not "separators" in the universally accepted sense of that term, and not rank in efficiency with them.
'They are eren less efficient than the l)est forms of deep-setting systems,
'Ther are no more efficient than the oldfashioned shallow pan, but perhaps require rather less labor."
"These conclusions hare since been abundantly confirmed, though there seem to be many who desire to use these cans on the there mar be in most cases some loss of fat "One of the chief misleading features used by the promoters of this system is the way in which the term separator is used to imply that the dilution process is equal in efficiency to a centrifugal separator. This is well
shown by the following quotation from a recent circular of the- cream separator.
'Those who beep only one or tro cows, as well as the large dairyman, can have the adrantage of a separator at a small cost, compared with the centrifugal separator or creamer.
"In another way would-be users of the dilution process are being misled, and this is in regard to the patents that have been issued or applied for on the dilution process or on the various styles of cans in Which it
is to be used. At the present time certain parties are going about the state claiming a royalty from any who may be using the dilution process in any form of can but their

The bulletiu then describes and illustrates cight of these so-called separators, quoting froin the patent office "Gazettc," and examines the claims and specifieations. Comment ing on them it says:
" A striking similarity is obscrvalle in a.l these patents. In none of t'. em cxcept-
is dilution mentioncl i:1 the c'ain, and there it covers not the diution itself, bat the manner of it. In all of them, lowever, dilution is inentioned in the description as an issential part of the process. It would scem, thercfora, that in patenting some minute or unesscntial feature of the can these people
have sought to convey to the uninformed the have sought to convey to the uninformed the
idea that the whole can, process and all, was sulijeet to the patent. This is further lornc out by the attenpt in some case to
mollect royalty from people using the dilution process in other cans."
The summary of the bulletin is: "Several
patents have been granted corering unimportant details of the construction of cans
in which the dilution of milk with water is recommended to facilitate the separation the cream.

Iny one desiring to use this process of doubtful utility is perfectly free to do so
without let or lindrance from the holder without let or hindrance from the holder any patent right whaterer.

The Cornell Cniversity agricultural experiment station will esteem it a faror to is demanding a rovalty from persons who are diluting their milk in order to facilitate the raising of the cream.

THE July crop report of the Department of Agriculture gires the condition of he apple crop as follows: "There has been a general decline in the condition of apples dturing the month of June, and there are few important apple states in which the condition is not considerably below the arerage for the past fifteen years. In New York, Iichigan and IIissouri it is 18 points belors, in Kansas 13, Kentucky 9, Tennessee Sorth Carolina 21, Virginia 10, Iowa 3, Illinois 2, and in Maine 48 points belorr. Ou the other hand, it is 11 points abore the fif-teen-year average in Ohio, 5 points abore in Pennsylrania, and 5 points above in IndiPenn."

The slortage in most of the important apple states will send many apple dealers and packers into the regions of good vields with the object of buying the fruit on the trees at low prices, especially from those not informed on the general condlition of the crop. The growers rather than the dealers are entitled to the probable adrance in rrices. and a timely knowledge of the situation will enable them to secure it.

## M

jor-General Wood, whose adminis tration as military-gorernor of Santiago is an unoualified success, say
article in the "Ceutury" for August:
-I can speal "Century" for August
I can speal only from mr own experience in regard to the condition of affairs in Cuba, but basing my conclusions upon that experience I can state positivels that if we give the Cubans an honest, economical, non-po'it ical gorernment under military control, and use erery means to put the most desirable and Americanize their institutions, improve the sanitary and otleer conditions of their tomns, organize and put in effect a suitable shool srstem, get rid of the present intolerable administration of criminal law, and put in operation an equitable system of tasation, we shall find there is no Cuban question left, and that we are dealing not with a distrustful, suspicious and resentful people, but with a people who will appreciate what we are doing for them and will gire us their cordial support.
"This has been my experience in the prov ince of Santiago, and I think that I can sas rithout exaggeration that the conditions in hat prorince were as difficult, if not more difficuit, than those existing in any other portion of Cuba, for we had nearly half the Cuban army, and found the province in a condition of complete disorganization so far as its ciril gorernment was concerned. I have not yet proposed any measure intended to benefit or inprove the condition of the people which has not met their warmest approval. They have worked enthusiastical.'y in all school reforms, they have supported every effort to improre the sanitary conditions, and they have used all their influence in supporting the measures introduced to guarantee public and impartial trial of all persons charged with There have been rirtually 110 consuence, and in the province of Santiago (and this province inc'udes 20.4 1 er cent of all Cuba, including the islands, and has orer one fifth of the total population of the island) I have found the pcople to be with me on all projects in which I could have expected the support of an lionest and self-respecting people.
"The people of the island desire that it shall he as nearly like our own as possible, and I know that we can cstablish a governaffe to all the inhabitants of the island of Cuba, whoever they may be or wherever they may come from. This we must do, or we slall stand in an unenviable position before the world at large. In doing it we can
count upon the support and approval of the inhabitants of the island. There are, of
course, agitators and dissenters, seekers course, agitators and dissenters, seekers means and otherwise. there are robbers and murderers and all classes of people, but the inajority of the people of Cuba want a good government, liberal in form, and ther look to us for it. This goverrment must be under military control until it is completely established.'

## I

A A recent bulletin the North Carolina experiment station does good service to the public by exposing an attempt to put upon the market a mineral adulterant for wheat-flour. A concern in South Carolina offers to sell to millers finely ground talc, or soapstone, under the name of mineraline to be used for mixing with wheat flour to the extent of twelre to eighteen per cent There is no justification for the use of any adulterant in flour. the use of a mineral in jurious to the health of the consumer is detestable crime

T"HERE seems to be a regular epidemic of "embalned" milk this season. Boards of health have investigated the fresh-milk supply of a number of cities, and hare found large quantities of it dosed with formalde hyde to prevent souring. In the course of investigation in one large city it was found that milk had been dosed successively by dairymen, wholesale dealers and retailers, so thoroughly poisoned, in fact, that br the time it reached the consumer it was danger ous to life. In another large city a number of cases of sickness and death were attributed to the use of milk treated with formal dehyde. Possibly those who put it in the milk were ignorant of its deadly character, for this porserful antiseptic is sold to dair men and milk-dealers only under various harmless names. But ignorance does not liere them of responsibility. In man not $r e$ liere them of rosponsibit. In many state compound into mill. So neservative, drug or compound into milk. So numerous have been the warnings in the dairy and farm papers and in the daily press against the use of pre servatives in food products that one is
forced to the conclusion that their continued and enlarging use is due to unscrupulou greed rather than to lack of knowledge re garding their injurious character.

Scecess to the Man Who Reads and Thinks is the heading of the following station:

Among the questions asked of creamery patrons br the Kansas experiment station is 'That dairy or farm paper do you read?' Out of serentr-seven patrons who answered this question we found that fifty-three, o sixty-nine per cent, took no farm or dairy paper. In locking cp the details of the rec ords it is interesting to note that the highest yield was made by a man who keeps specia dairy-cows and subscribes for a dairy paper This patron realized $\$ 9$ a cow per annum more than the next best patron who reads no paper, and $\$ 36$ a corr unore than the poor est patron.
'In collecting records from various parts of the state we find where intelligence is of the state we find where intelligence is applied to the dairy industry the cow is yielding from $\$ 60$ to $\$ 80$ worth of dairy products per annum. Contrast this with $₹ 20$ to
§30 without intelligence and no one need $\$ 30$ without intelligence and no one need
ask if educat:on pays. At the Kansas experiment station we find that intelligence applied to feeding ca'ris will cau-e then to gain from twelve to twenty-three pounds a week instead of seven or ten pouncls. This is an age when intcliigence can be turne: into caslı, when, as Secretary Coburn say: -Huscle to win must be lubricated with brains.

Tune report recently received by the Sec
rctary of Agiculture retary of Agriculture from Dr. Charle U. Shepard, in charge of the experiment tea cessful South Carolina, records very suc Shepard says that in the elterprise. are nows under tea cultivation, and that a product of 3,000 pounds was sold last yea at a profit of twenty-five per cent. Ife estimates an annual yield of 10,000 pound: when all the plants now growing reach maturity. The tea-plants stood the excep tionally sevcre weather of last winter with out loss.
He solved the labor problem by establish ing a scliool for the education of the negr children emplored in picling tea-lens Thic quality of the teas produced,
and black, was very satisfactory.

## $\operatorname{sem}=$ K2

Sawdust Bedding
Scarcity of straw has me to use saw shavings to bed animals. confess that for a long time I have been prejudiced against sawdust and shaving manure. At present 1 am very glad that I am taking more confort in the stables than when I used nothing but straw Hables than when a holing but shis. Morse and cattle, and hogs, too, while bedded on
shavings are always clean in the morning, shavings are always clean in the morning,
and that is more than I could say of then and that is more than 1 could say of them
when they were bedded on straw. In short, I have learned to like this material for the purpose,' and shall contimue to use the shavings as long as I can have them at a reasonable price. In the winter 1 can get them loose most of the time for the hauling Now I am paying fifteen cents a balc for them. Shavings are clean and tend to cleanliness. That much is settled in my mind for good. It means a good deal, too, so far as the cows and milk and butter are concerned. bly' can. The only question about whicl there could be a possible dispute is whether sawdust or.shaving manure is as good for the land as manure from animals bedded with straw. I have usually favored the straw manure, although I was not afraid (as are others) to use sawdust manure quite
frequently. A symposium on this question, which I find in one of the last issues of "American Gardening," should set the mat ter entirely at rest. The conclusions drawn by different experiment-station workers are in entire accord with my own observations.
L. A. Clinton (Cornell University) reports L. A. Clinton (Cornell University) reports
that on a piece of ground where shaving manure had been applied year after year the yields were fully as good as on an adjoining plat on which straw manure was applied tor of the New Jersey station, Prof. E. B roorhees, who says:
"It is my judgment that sawdust may he used with perfect safety, provided the
manure is not allowed to lie in loose heaps, and thus heat rapidly and fire-fang, as is the tendency with manure that is made where sawdust or shavings are used as bedding. If the liquid manure is mixed with the solid, and eren water added, in ordcr ger of loss than if straw were used. Furthernore, because sawdust or shavings will absorb proportionately more of the liquid than straw, a much snaller quantity of bed ding should be used than in the case with stran, and in the case of thite pine there standpoint of its injury to the soil, as it very readily decays and no deleterious sub stance is formed in its deconmosition should hesitate to recommend the large use
of sawdust derived from woods in which of sawdust derived from woods in which
there is too much pitch, though I cannot see even here that if it were used in reasonable amounts any damage would follow. Firially I may say that since the 'proof of the pud ding is in the eating,' I have proof from three-years' experience at the experiment farm with the use of pine shavings as litter; it is not deleterious, but on the contrary ad
vantageous, because enabling the better absorption of the liquids and better distribution of the manure, and thus far no injurious effects have been observed. It seems to me that the Hhole question hinges upon place in the manure, which results in firefang and in the reduction of the value of the product. This may be obviated, as stated above, either by moistening or using a smaller quantity." It is true that shaving manure (especially where the aninals are heavily fed with grain, as we do when horses are being worked right along, or while cows are fed in the stable during winter, or while violent heat and is liable to fire-fang. Even then the manure would not injure the land.

A Ginseng Book Having seen so much in the country in ginseng culture, I was very glad to find on my book-table the little volume entitled "Ginseng," just pullished by the Orange Judd Co., of New York City. It is written by Maurice G. Kains, and con-
tains chapters on cultivation, harvesting marketirg and market value, also a short account of the history and botany of the
plant. The text is liberally interspersed with illustrations. As the price of the book only twenty-fire cents, there is no need of any one interested in the subject going with out the knowledge of all that is now known about ginseng-growing. So far as the profits of growing the commercial root are co The one difficulty about raising plants from seed is that it takes eighteen months for the seed to sprout, and that it must be kept moist during all this time. The best way to store the seed is to stratify it. Make mixture of leaf-mold, sand and loam, and pass it through a fine sieve, finer than the size of the seed with the pulp off. If not sifted great difliculty will be experienced in removing the seeds from the mixture when the time connes for planting. mixture made in this way and sifted will he slower to dry out than most unmixed soils, and will therefore be better as a storage material. Pit a layer half an inch deep smootlly upon the bottom of a box, and scatter the berries thickly, but only one decp, upon it. Put another half inch layer of earth, theu a second layer of berries, and so continue until the box is full. A deep cigarbox will hold several ounces of seed, and is a box will hold several ounces of seed, and is a handy size to use, although a stronger boxerally be better, particularly where it is to be much exposed to the weather. When packed, either store the box in a celar or bury it in some place that will not become wet, but will always be moist enough to prevent the possibility of drying out in the summer. Since frost does not injure the seeds, but rather improves their germinating qualities, it will be better to put the box out
years it has been my ambition to construct such a summer-house, and only the fact that I have so many irons in the fire has thu far prevented.

## SALIENT FARM NOTES

Shady Nooks After going about on this my eyes and ears wide open it would see that I ought to know more than I do. Oftel I find myself wondering why I did not know enough to do this or that last year or five or ten years ago. Why didn't I do this o that while I was on the up grade of life so that 1 could be enjoying it now as 1 a down? For instance, herc is a little thing should lave done. When my wife or I desiv to go to town I hitch up the mare and tie her to the hitcling-post to wait until we are ready. That hitching-post is out there i the yard under the broiling sun instead of under the shelter of a tree. When I was planting trees on this place six years ago could have planted three or five assl or maple trees in the form of a $V$ with the point toward the south, thus

Then set my hitcling post or rack at $x$ and by this time it would be in the shade all day, and a horse or teanı could stand there at any time without disconfort. It is only the comforts of life, yet I didn't think of it when I should.

Often I hear people who are passing on the highway exclaim: "What a nice little home!" "Isn't that a pretty little place!" "There's a bird's nest for you!" etc., etc. had it to do over again. It is a difficult matter to go into a corn-field and pick out the best spot for a house, barn, yards, ete.
full of life and vigor, while the sweet.corn leares are cool, full of juice and even tipped with dew. While these plants are in this condition is the time to cut a supply for the lay and draw into a slady place or pile on the barn floor. When I see how bare the pasture is it does me good to look over the fence alongside and observe the abundance of sweet corn standing there-enough to supply the cows with green food till frost comes. We may as well make up our minds that one of these midsummer droughts will pre(ail at least four years in five, and that we heen prepare for them. This season 1 have olle sisth of an acre aud it supplied about quantity of feed. The sced was sown the twenty-first day of April, and when the plants were a foot lighi, the latter part of May, 1 began cutting, and finished the patch July 20 th, the last plants being about two
feet in height. The early cut plants made air second grow th, lyut the drought has cut short anything like a second crop. In a damp season rape will make a good second crop after cutting, but in this locality we can calculate on only one good crop. As a soiling-crop it is much earlier than sweet corn, and if the soil is very rich the yield in bulk is large. It is a good thing to try on a limise sol I is a farmers and darymen who try it will adopt
it as oue of their staple soiling-crops, while many others will reject it. Those who try it should keep in mind that the soil must be rich to grow good rape, and if it is of
loose, mellow nature so much the better.

Horseless Power W. H. H., Iowa, writes time is not me that he hopes the able to dispar distant when we shall be of power on the farm. "I shall hail the glad day," he continues, "when we shall be relieved of this great burdeu; when we can devote all of our acres to the production of food for human beings and for such animals as contribute directly to our food supply; when we shall be rid of the laborious task of growing, curing and storing the enormous quantities of fuel (food) required by the animals that furnish us power only."
W. H. H. is not the only one who will hail with joy the day when the farmer shall have at his command a cheap mechanical power to move lis implements on the farn and his conveyances on the road. That such a power will soon be discovered (pos sibly is already) and harnessed is evident to all close observers of the trend of invention, Horse-power is the cheapest and most easily managed we have at present, but it is far too expensive to remain much longer. We shall have a cheap and powerful motor driv en by stored electricity, liquid air or some
other agent and ás easily managed as a wheelbarrow ere many years roll by

Fake Fairs A lady Farm and Fireside mong other things: "Do Mousouri writes, among other things: "Do you think that we
farmers should attend and support the fakir, hoss-trotting, midways called agricultural and fine stock exhibitions, and compete for the small prizes offered for improved stock and farm and household products, while nine tenths of all the receipts are given to fast horses, charioteers and balloouists?"
have attended a great many fairs, state and county, in years past, and some of them were very good. The last county "agricul tural and fine stock exposition" I attended was probably something like those referred to by the Missouri lady. A'short time after entering the grounds I became convinced that all that was lacking to make it a good thing was all the essential elements that go to make up an agricultural fair. While I stood gazing at the great aggregation of slab-sided, spindle-shanked, rattailed horses the array of fakir stands, side-shows and gambling devices, and wondering what had gambing devices, and wondering what had fords and Shorthorns, the smooth and squarely built Poland-Chinas, Berkshires and squarely built Poland-Chinas, Berkshires and downs, Cotswolds and Oxfords, an old farmdowns, Cotswolds and Oxfords, an old farm er friend tapped me on the shoulder, and
with a comical wink, draw-led, "In my with a comical wink, drawled, "In my opinion, this fair is a nice fair for those who
like this sort of a fair. Let's go away!" And away we went. Evidently a great many others did the same, and stayed away, for the "association" expired unmourned the following year. If your county fair is in good liands attend it by all means. And all who can possibly do so should attend the state fair. One can learn much at a good fair if he goes for that purpose.

## FARM THEORY AND PRACTICE

selling Har.-- Nuch is written in facrops of the farm into higher-priced products for the market bs feeding, thus retaining upon the farm as much of the fertility as possible. Such adrice is sound
and safe for all who are so situated that and safe for all who are so situated that
feeding can be done at reasonable profit, but feeding can be done at reasonable profit, but
it is unreasonable to assume that all can sell it is unreasonable to assume that all can sell
their crops in concentrated form through conversion into meat, milk, butter, wool, etc. "In the rery nature of the case immense amounts of stuff must go direct from the
fields to the markets because ther are nelds to the markets because ther are
needed in their original form by consumers or manufacturers. This is true of hay as
well as of other products of the field, notwithstanding all the writers that hold up their hands in horror at the thought of selling this feed. On many farms har is the it. It is wholly a question of profit, taking term of years into consideration when a term of years into consideration when
profit is calculated so that the questions of proint is calculated so that the questions of
labor and soil fertilization may be accurately determined.

## Talcation of Plaitr-food.-There is

 an inclination on the part of many writers to emphasize the importance of the tables giving the fertilizing ralue of the variousfarm crops as stated in dollars and cents, and to insist strenuousl? that a farmer is playing a losing game when he sells a ton of hay for less than the amount named in these tables as the raluation of the plant-
food contained in the hay. But if their position is correct, the hay must sell for a sum equal not only to the raluation in the tables, but equal to this plus the cost of production. They are inconsistent in omitting the latter item. If the raluation placed upon the manurial elements of a ton of any field crop should be accepted as correct, then every farmer is losing money that does not sell his crops for more than manurial ralue and cost of production combined. Does the practical farmer beliere that he must set
aside say six or seven dollars for the fertilaside say six or seven dollars for the fertil-
ity in the ton of timothy hay sold off the farm? I think not. I certainly hare no desire to underrate the matter of soil exhaustion, and I know that fertility is more
easily and safely maintained by the feeding easily and safely maintained by the feeding it is not in the interest of a better agriculture to make radical assertions wholly at

WHERE IS THE ERror?-Clearly the mistake is in assuming that the plant-food in a
ton of field crops should be given the same raluation a pound as is given that in arailable commercial fertilizers. If it be true that the farmer at a distance from high priced city markets cannot afford to furnish
all the fertility needed by a crop in the all the fertility needed by a crop in the
form of available fertilizers, then is it equally true that he cannot rightly value that ob-
tained from the soil and air at the price tained from the soil and air at the price
demanded for it by dealers in fertilizers. The farmer finds that he can afford, it may be, to supply a small amount of the needed plant-food in the form of a fertilizer, because in such form it helps the plants to help of the plant-food that gives it its ralue. elements in a fertilizer can be evenly distributed just when and where needed. The a much lower market ralue a pound.
It is not possible to place an accurate ra uation upon the nitrogen, phosphoric acid and potash in the soil. We knor that it has ralue, and that $\pi e$ cannot afford to have
removed by crops without compensation, but it seems to me absurd to assert that any farmer reduces the value of his land by six
or seven dollars when he sells a ton of hay from it. A certain amount of the three val uable elements has left the soil, but its value to the farmer in nine cases out of ten is no nearly so great as the selling price of an tilizer. The figures given in these tables are excessively high for most farms.

Timotify Hard ox Layd.-The hayfarmer must bear in mind, however, that timothy is a hard crop on land. Noes not remove fertility from an acre that has a value to the farmer of twelve
or fourteen dollars, yet it has some value;
and then the crop is such that the soil fal to get such exposure to the air as all soils near the surface. Year after rear, until the meadow becomes foul or unproductire, this condition continues. If timothy $\pi$ ere grown a single rear in rotation, as is usual with wheat, it would not be considered exhaustive, the sod furnishing humus for a succeeding crop. Where clover is grown with the timothy soils usually improre, although the clorer cannot add a pound of the phosphoric acid and potash that are ralued so highly in the estimates to which reference has been made. Crops are not "hard" upon land in proportion to the amounts of fertility re-
mored in them, but according to their habit of growth, the character of the methods re quired in their production, and the nature of the rotation or the absence of rotation.

Rational Mariagenert.-It is the business of the man who has land adapted to timothr, and who raises it for hay, to learn whether the best profit lies in feeding it or selling it. If the market price seems to justifs selling it, the question of maintain ing fertility must be considered just as it is in the case of wheat or other product. We know that such land must be exposed to the added directly in the form of stable manure and commercial fertilizers. A combination of both methods is best. The meadow should be under a reasonably short rotation. The sod should be turned and allowed to decay in the soil where it furnishes humus. When also, as it will furnish nitrogen and also also, as it will furnish nitrogen and also
feed deep in the soil, making tough material feed deep in the soil, making tough material
arailable and bringing it up near the surface, available and bringing it up near the surface,
where the timothy will feed upon it as the clorer-roots decaj. Tro years is a sufficient15 long time for a meadow to stand if the interests of the soil are considered. Timothy is hard upon land simply because we make it so, by letting it feed upon the surface for compact and lifeless.

Datid.

## LIGHTNING

The National Weather Bureau reports that 365 death hare resulted during the past rear from lightning-strokes, besides the defield, improved ports were received showing the destruction of damage by lightning of 1,865 buildings, aggregating a loss of $\$ 1,440,000$, and that 700 damaging strokes fell upon live stock, single strokes in some cases killing a large number
of animals. A large proportion of this stock met its death in close proximity to wire fences, and these fences, it was found upon investigation, were not prorided with that the bolts struck the fences at a considerable distance from where the animals were killed. It is undoubtedly a fact that barbed-wire fences are responsible for considerable loss each year from lightning, and it is stated br the officials of the weather bureau that a considerable percentage of this loss could be obriated by the use of
grounding-wires at frequent interrals in the grounding-wires at frequent intervals in the
construction of such fences, thus providing the current a suitable path through which to pass to the earth.
A recent bulletin issued by the weather bureau discusses the question of lightningrods and their ralue to the farm and the house. This subject is interesting in riew of the fact that lightning-rods in many sections hare of late fallen into disrepute and been discarded as morthless, and in some cases considered eren as "lightning-attractors," to states that while no lightning-rods are absolutely sure safeguards, yet almost any conductor is better than none, and that The fact that a building prorided with lightning-rods of the most approved strles may he struck by lightning and damaged or destroyed does not prove the use lessness of rods. Any part of a building. if the flash bc of a certain character, may be struck, no matter whether there is a rod on the building or not. Fortunately, howerer, such cases are exceptional. The great ma intense but that a good rod, if well grounded, intense but that a good rod, if well grounded,
will furnish the most natural path for the flash. But in some cases of sudden enormous flash. But in some cases of sudden enormous
discharges of electricity the rod may be likened to a river channel in time of a Western ened to a river channel in time of a
flood-unable to carry off safely the full
$\qquad$ All barns and exposed houses, especially i
situated on hillsides. should hare lightning-drelling-houses in city blocks have not need for them that scattered country houses hare. The iron rod is the cheapest and as six ounces copper; it should Weigh about of a tape. In this shape it is much more efficient than if round. The ground connection of a rod is stated to be of very great importance; at best it is a poor ground for the earth-plates in damp ground or running water, especially the latter. The apex of the rod should be plated or in some way protected from corrosion. The bulletin inally comments on the medical features of the subject, and states that a stroke of light uing received by a person frequently causes temporary paralysis of the respiratory organs and the heart which, if left alone, will deepen into death, but if quickly and intelligently treated-chafing, artificial respiration, etc.-will generally result in recorery.

Guy E. Mitchell.

## THE HOUSE WATER-SUPPLY

In planning to put a water-tank in your kitchen have you considered that during the summer when the stock are in the fields drinking from springs the tank will hare less water flowing into it from the windmill or the hydraulic ram, and that, in cousequence, if it is not emptr it will contain warm rater? And hare you considered that when rou want cold water under these circum stances rou must turn on the windmill, start the ram, or pump the water yourself? If sou don't your wife will! If rou haven't thought of this, then profit by my experience. "Experience is the name a man gives to his mistakes.'
The tank in the kitchen had survived its usefulness, was worn out, and a new one had been decided upon. The mistake was made when the old one was put in; it should never hare been pnt in the kitchen.
I bought a large galranized steel tank with a capacity of about one hundred and fifty gallons, and set it up outside the kitchen in the woodshed, the bottom being eighteen inches abore the faucet at the sink. A box was built around it large enough to allow a packing of six inches of sawdust abore, below and at the sides. This material was applied after the pipe connections had all been well tested to see that they did not leak. It was put around the tank to keep the rater cool during the summer by preenting access of the $\pi$ arm air to its sides, and to prevent freezing in the winter.
The tank is one of the kind used for heating water in connection with a range, and as it stood when I purchased it, it had four openings-tro at the top, one at the side and one at the bottom. One of the holes at the top opens into the tank direct, and was to be used for the outflow of warm water. The other is attached to a pipe on the inside of the
tank which was to carry the cold water nearls to the bottom. The hole in the side water as it came heated from the fire.
At the bottom was At the bottom was
to be attached the pipe that led to
the fire-box where the water was to

But I didn't want the water hot, and
need of this arrangement of the pipes. My ends, I thought, would be best gained by turning the tank upside down and plugging the side opening. This I did. The pipe that comes from the hydraulic ram I then attached to the supply-pipe, $A$, so that the resh water enters the opening that wa riginally at the bottom, but is now at the top of the tank. The outflow-pipe, B, was then screwed to the cold-water pipe which
runs inside the tank, and the pipe C, which runs to the sink, was fastened to the original hot-water pipe.
Whencrer the hydraulic ram is morking the water flows in and there is a constant
supply of fresh, cool water all summer. By turning a tap in the flow-pipe I can shut off the water from the tank and force the rater to the large cistern in the garret when the supp
The outflow-pipe empties into the sewer, and like the tank and the other pipes,

## WHEAT NOTES FOR ENTERPRISING WHEAT

The winter wheats of the United States can well be put into three distinct classes The white, soit wheats are most successfull grown in Oregon and Washington, and in the leading apple-growing regions of the middle latitudes. The semi-hard wheats are to be found between Oklahoma and Nebras ka in the II est and Canada and North Car olina in the East. The rery hard flinty grained minter wheats, known as durums, are being successfully grown in Texas.
There is an immediate and pressing de mand in Oklahoma and northwestern Texas, as mell as in southern Mlinois, Indi ana and southwestern Kentucky, for a semi hard red wheat that is of a hardy, drought orange-leaf rust (Credo rubigo-rera). Theat of this class is perfectly adapted to the roller-mill process of flour-making, which ha The Turkey generally adopted by millers. The Turkey Red, a semi-hard wheat now so extensively grown in Kansas, is an ex ceedingly raluable rariety. The address of
the leading growers in the states named can be had bs addressing the directors of the Kansas and Iowra experiment stations. The Budapest, now extensirely grown in the vicinity of Grand Rapids, Michigan, can be very properly put in the same class.
The rarieties of the durums, or macaroni, wheats are less known. One rariety now grown in the ricinity of Dallas, Texas, is the Nicaragua hard. This is classed as one been successfull the rust almost invariably ruins the where It is a hearily bearded whe crop. sown in central Texas not only in Oabe but in the following February, in October, the in the following February, thus giving the grower a double adrantage in securing crop. So far as known, the old-fashioned red-bearded Mediterranean is still one among the most reliable rarieties for general cultivation in the Southern states, but inter mixture with other rarieties now renders it almost impossible to obtain a supply for seeding purposes. It was by far the most valuable of the great number of rarieties yet imported, and a rariets least subject to the attacks of the wheat-weeril.
Among the rarieties that may rery prop erly be classed with the medium-hard red the dent-corn growing regions, the Fultz, which was orimated in Pennstlania, tales the lead originated in Pennsylvania, take rariety had become too much deteriorated by intermixture with other rarieties it wa regarded by the wheat-growers of the United States much in the same light as was the Tilson's Albany by the strawberry grower, the Concord by the grape-grower,
and the Baldwin or Newton Pippin by the and the Baldwin
apple orchardist.
Another variety of wheat, the Mealy which the writer of these notes discovered in southern Virginia, when chief of the seed dirision of the United States Department of Agriculture, is another wheat of a similar character, but which, like the Fultz, is rap idly- losing many of its desirable qualities by being mixed with other more common it to the country mill the miller refused to fo the country miller refused to grind it on accoun of the extreme hardnes of the grain. This rariety has been well tested at the Ohio experiment station, and is highly recommended.

Where the winter wheat was killed by the extreme cold weather last February, in the wiuter-wheat growing countries in northern Ohio, Indiana and southern Michigan, the Turkey Red wheat should be substituted for the less hardy rarieties. Reliable seedsmen ought to procure and advertise this variety In the meantime the directors of the exper iment stations in the winter-wheat belt," as well as the one at Ottawa, Canada, can be consulted about other hardy varieties.

More and better work in the line of introducing improved pedigreed seed of the leading farm crops is a need of the hour, since it will surely lead to a greatly increased yield and therebr promote the general pros
perity of the farming community. That perity of the farming community. That seed-wheat is showu by the fact that they frequently pay from three to five dollars a bushel to responsible parties for some presumably new rariety which in too many cases proves to be no better than the ones that "it is the recognized province of the experiment station in each state to deter mine what varieties of the different grain crops are best adapted if part are not in formed on the subject others are not likely to be."
W. MI. K.

GNOTES FROM

L- The Cabbages and Catliflowers -The hot and very dry weather in
June and early July has prevented me and many others from planting seed of late cabbages and cauliflowers at the
tinie when we have usually done or should have done it, in order to be sure of grow ing large solid heads before the time that cold weather puts a stop to further growth. I did sow some seed of these regetables, however, even earlier than I had been in the habit, but rery few of the seeds sprouted, rains most of them came up rather late. I have most of them came up rather late. I moist soil, and they grew promptly. Perhaps I may yet succeed in getting good heads from these late-sown or late-sprouted
seeds. Just now regetation seems to be making up for lost time, and one can often see the difference from one day to another The carpet or mulch of fresh manure that I ain now spreading all over the ground between these late cabbages and cauliflowers
gives them a great adrantage. They feel at gives them a great advantage. They feel at hot the sun or hoov dry the atmosphere I have never yet failed to get good cabbages and fine cauliflowers for late fall and winte

Winter Radishes.-It is now time to sow seed of the winter radishes. I am very
fond of the rather pungent kinds, like Black Spanish, etc. Some people prefer the beautiful Chinese Rose, which is too sweet to of the Chinese Manmoth, a white, very large and exceptionally tender sort. I have to be. For this reason I have fallen back on the Long Black Spanish. It is not a great trick to grow any of these radishes in our
usually favorable fall weather. Have the ground well prepared and reasonably fertile Sow seed thinly in drills which should no be less than fifteen inches apart. Begin
using the hand wheel-hoe as soon as the plants are up. Remove all weeds early. They grow very fast just at this time. Then
thin the plants to stand not less than three thin the plants to stand not less than three might be left two to two and one half inches apart. Possibly the last-named will take well in sorme markets. I have nerer tried it as a market vegetable. All winter radishes are best for table use when cut or shaved fourth of an inch thick, and piled up, fourth of an inch thick, and piled up,
slightly salted, on a plate, to stand an slightly salted, on a plate,
hour or so before being used.

Celery Hints.-South of Philadelphia or Cincinnati it is still time enough to set celusually employed there is to plant method six feet wide, with alleys of same width six feet wide, with alleys of same width
between each two beds. The space for the plants is slightly excavated, say four inches deep, and the plants set in rows

across the bed, which rows are one foot apart, while the plants in the rows are set
six inches apart. The bed is then gradually filled up with earth from the alleys. Th prime condition of success in growing celery
thas closely together is an excess of arail thus closely together is an excess of arail
able plant-foods in the soil. It is not enough that we use plenty of manure in the soil but this manure should be old, that is, well rotted and intimately mixed with the soil I wonder what success Southern people
would meet if they were to try the old plan of planting in trenches. Have any of the Southern readers of Farm and Fire side ever tried it? Sometimes I have a notion to plant a patch in this way again
The chief difficulty here is the fact that in order to go a foot down into the ground we have to dig up a portion of the hard cla subsoil. Of course, we have to set the plants
in good surface-soil. After the trench is dug a lot of fine manure and good surface soil, well mixed, must be put back into the trench, say not less than four inches deep and into this the celery is planted. We ma have a single or a double row. I am now
any way we many plant. It gives double the number of plants, and requires
banking, boarding or filling up.

In reality there is little difference between the old trench system and the mulehing system as now practised by me. The illustrations will make this plain. Any way the
principle is the sane. Fig. 1 shows the young principle is the sanue. Fig. 1 shows the young
plants in the bottom of the trenches, with plants in the bottom of the trenches, with banks of earth betreen the rows. Fig.
shows the double rows on the surface of the ground, with banks of coarse manure be tween each two double rows, the manure being held up and away from the plantrows by boards set up on long edge on each side of each double row. In either case the plants are protected from drying winds and heat. In the mulching system we have another advantage. If weather is rery dry and hot ve cau let a stream of water (if we have it) soak through the manure, thus forcing rapid growth of the plants in any kind of weather by means of the easily assimilated plaut-foods which the water dissolves from the manure and carries down to the roots of the plants. With celery thus managed and protected there will be very little chance for rusts or blights to attack the foliage; but if they do, spraying with Bordeaux mixture in the earlier stages of growth, or with restore the plants to health.

Hen Manure.-I have always valued the droppings of poultry very highly as a garden manure. It gives us a chance to produce foliage and stalks of the thriftiest kind. For that reason I usually reserve all poultry manure for growing celery and ce'ery-plants, spinach, onions, lettuce, etc., and I believe

that the same material would come rery acceptable for growing winter (hothouse) lettuce. A writer in "American Gardening' says that for greenhouse purposes he com posts the poultry manure with five times its amount of soil, or better, sods, and adds to every barrel of the manure fifteen pounds of pure ground bone and five pounds of sulphate of potash. The whole is to be cut down and well fined and mixed before using.

Chear Bunching-onions.-I have sow another long row of Gibraltar onion, using seed rery thickly, in fact, as thick as we sow it for sets (about sixty pounds to the
acre). The only difference is that I select very rich ground for my rows, while for sets the soil should be only fairly fertile. This ow is intended for latest bunching-onions. I sorw a row or two every few weeks during spring and summer, and what a lot of stuff for green bunching one can pull up from any such row! People like young small onions to eat with bread and butter, and they consume great quantities when such mild sweet ones can be had as the Gibraltar or Prizetaker. I prefer the former; it is thriftier and very mild. The onions, with bulbs from oue half of an inch to one inch and more in diameter, stand very thickly in the row. It takes only a couple of inches of row to furnish material enough for one bunch, and I am selling three bunches for a nickel. This gives us about a penny for every inch of row, the row requiring a space of twelve inches or less in width. This or at the Figuring on the acre rate, of course, is idle speculation. We can't sell more than the product of a few rows at retail rates, and only a reasonable amount at wholesale at half or one third the retail price. What I wanted to demonstrate is merely that it is rery easy to produce all the bunching-onions any one may need for late use and summer and fall sales, and that the cost of producing them is trifling-virtually next to nothing except cost of seed. I believe that the consumption of these small onions could be largely increased, and would be doubled and trebled if all would grow the sweet Spanish varieties, like Gibraltar and Prizetaker, and let people find out that an onion is not nec essarily a thing that will bring tears to pooples eyes. I find that I ean eat quite quantity flarored with a little salt or rith rinegar and salt with iny bread and butter
for supper, and that they hare a good effect for supper, and that they hare a good effect
on my general health. T. Greiner.


 and and cin is purticully no method of protection peas is practically no method of protecting peas
or beaus from weerils after ther are planted. protection is most geuerally secured by late when the mature insects are ready to lay their eggs. The eggs are laid on the ovar.
when the plant is in flower, and the larva cats into the seed, and the hole by whicb it enters is so small that it grows orer com-
pletely, and from the ontside there is nothlng that indieates the presence of the larra in the
seed. The insect undergoes its changes in the seed. per countr, Ind. I do not know what can be killing your apple-trecs, but it might be to examine carefully for horers, and describe not answer you intelligently. Fruit-trees of all kinds that are one the ded hare their fruit when thinned than the load ware less injury and the fruit generally sells for a higher generally fully as large in sield. The help to the tree from thinning consists in relieving it from maturing so many seeds, the doing of which is rery exhausting to the tree, while the growing of flesh is not a great burden, as it is composed largely of water. The work
of thinning should be done as soon as the frnit is well formed. As a general rule, heavi 15 loaded trees or grape-vines shonld have
abont one half their crop taken off, and this
will often look like waste when it is done. It is a good plan to thin out clusters where fruit hangs closels rather than remove the

Improving Wild Strawherrien-Best Apples.-J. C. S.. Eno, Ontario, Canada
If You wish to improve sour native stramber
ries hy crossing yon can nse almost any of If you wish to improve your native stralmber-
ries hy crossing yon can nse almost any of
the good cultivated sorts to good advantage, and it matters very little which, as the re
sults from crossing are rery uncertain. and what you need most is to get it to rary from the wild type and then improre the seedlings take it rou hare a long job, hut a very inter esting one. Yon should raise mans seedlings
affer making the cross, and select those that ray most from the type, even if ther ar not the hest, as such are most likely to pro-
dare widely rarying seedlings. To improve snch a plant you must get it to rary first the method used by Lnther Bnrbank, who originated the Burhank potato and more good fruits than ans other man who has ever
lived. Perhaps you wonld get hest results from some strongly bi-sexual rariety to eros
witb your natire varieties, such as Beder write to yonr experiment station at Gnelph

Preserving Fruits.-R. M. R., Eldridge Preserving Fruits.-R. M. R., Eldridge,
Iowa, writes: "Please give me a receipt (if
possihle) for preserring fruits, such as apples, pears, plnms, peaches. quinces, etc., so that
they will beep and retain their they will keep and retain their natural colo and shape. I don't want anytbing to pre
serve them for eating purposes, but some thing to rub orer them so that when tbey ar put each in a separate glass jar they wil look natural for shat
poison for all I care
pison for all I care."
Reply :-There is nown material that it is easicst fruit without injuring its color it is easicst to keep light-yellow colors, bu
reds are easily soluble in all the preserving compounds used. Last week I had the pleas ure of looking orer the board of trade exhibi
of preserved frnit in Sau Francisco, and of preserved frnit in Sau Francisco, an
learned that they have used much sulphurous acid, but are now largely using water con taining about one and one half per cent of
formaline and some glycerin. The latte formaline and some glycerin. The latter beans, peas and similar regetable tissues Dr
Kedzie recommends one half glycerin and one half water. In my own experience I have found a two-per-cent solution of formaline
rery satisfactory for plums. grapes, etc Peach-borer-Summer Pruning-Pro-
tecting Cut Surfaces.-H. R., Bowling Greeu. Ohio. The gum on your peach-trees
is probably exnded br the tree from holes
made by the peacl-borer. It is made by the peacli-borer. It is rery common.
The rentedy is to clear awar the gum and dig out the worms with a knife in May and igain in August. Af soft suap is then applied, ers will probably he kept ont, but the trees must be carefully looked over for borers at a prerentire, but I prefer the soft soap
especially if a little milk of lime is added to it to make it flow easils. It is not generally
necessary to fill wonnds with wax, but it is necessary to fill wonnds with wax, but it is a
good plan to do so.-Light pruning of peaclh good plan to do so.- Light pruning of peacla
or plum trees may be done in June or as soon as the the done earls in spring Foliage mould in snmmer checks growth and the
moved in mored in snmmer checks growth and tbe
development of the frnit. Limbs two or
tbree inches in diameter that are cut off tbree inches in diameter that are cut off
should certainly have the cut surface pro
tected from rot fungus, ment is hy coorering with wax; hut in the
case of willows. cottonwoods, elms and similar trees a good thick coat of white lead is sufficient, and often they will do rery wel
without any protection.


C COLD-STORAGE EGGS
but they are nevertheless a necessity at the present time, as they reliere the mar-
ket of the surplus during certain seasons
when the supply of eggs and poultry is unlimited. The eggs are kept at a temperature just above the freezing-point, the object be-
ing not to allow them to become frozen, and
at the samc time to keep them in a condition which prevents any changes. The main ohsold as "fresh laid," which is an imposition way to orercome the difficulty. There should he a law compelling those who suhject eggs label or mark them in such a manner as make the fact known, the same as is done purchase cold-storage materials the right to cold-storage eggs as "fresh laid" is a frand and imposition. When poultry is kept hy the cold-storage process decomposition hegins and the meat becomes flabhy. Any person
who has compared such poultry with that nce, but the great arms of busers are igno rant of the fact that to a certain extent villingly huy an article that has heen preserved hy cold storage, beliering informed of the facts hy

## COMPARISON OF BREEDS



ROUP
When roup appears in the flock and rapa form hen in the flock has caused all the




[^6]fect the premises and get new stock. Thiro
diseases in fowls are very near that of dip
 the throat at night, with a swabbing or
spraying of one part peroxide of hydrogen and three parts water in the morning. It mas happen that certain fowls or breeds are more suhject to it than others, which denotes that the birds so affected belong to a family that is more liahle to the disease than oth-
ers. In all cases he sure to aroid drafts ers. In all cases he sure to aroid draft is heating, using lean meat and a rariety
DRY DIRT AND THRIFT
Whenerer a forl is noticed busily dusting
itself it signifies that the bird is happy and
in good health. The hath is positirely essen-
tial to its thrift and comfort, and without
it no flock will prove remuneratire. As the
fall comes on the supply of dirt must be
stowed away for the winter bath, for with
the earth corered with snow and eversthing
frozen hard it is not an easy matter at
that time to procure it. At the present time
it is only necessary to keep a yard spaded
fine, eren if only a few feet square, in
order to gire the fowls a chance, but in wrin-
ter. there must be dust-boxes, and the dirt
should be fine and perfectly dry. A few
barrels should he placed in the cellar and
filled with sifted earth or coal ashes, there
to remain until dry dirt becomes scarce,
mhich is always possible in winter. Coal
ashes may be added during winter, for many
have a certain quantity then; but it is rery
little trouble at the present time to lay up a
store of dirt. Nerer use wood ashes, for
should the forls get wet the caustic proper-
ties of the ashes will irritate and perhaps
injure them.

BANTAMS
Bantams are profitable, and not only are they beautiful, but the profit derired from a
flock of the little pets is considerable. Takthem to come to maturity, the very small amount of food consumed and the reduced
space required to accommodate them, the
bantam hen. will lar as many eggs as large one, and three times the number of chickens can be kept in the space withou ation, they will rield a larger profit in proespecially as in the weight of eggs in pro
portion to the size of the birds they largely excel all others. Bantams make the prettiest tage in that respect. They are very easily larger birds. The Bantam is growing in puhlic favor more and more every year, and they are great farorites with children.

## THE POULTRY-HOUSE

Attention is called to this matter, as the
poultry-house for winter must he built now IThere nearly all mistakes are made is in the ventilation. It cannot be explained why to the expense of using double walls and then hare an upward current from the floor vacuum may be filled when the warm air goes up the ventilator. It should be borne
in mind that ventilators do not alwars carry
$\qquad$
$\qquad$

cared for and selling the rest. Some of the
pullets commenced laying in September. For
eggs sold
and for poultry, $\$ 17.25$. Mr I foreised are $\$$ Tholly
a mixed flock-Light Brahma and Thite and
Barred Plymouth Rocks-and are yarded ex
cept as they are let ont for an hour at night
I feed all kinds of grain and cahhage every
day or two; also beep them scratching in

## A College And Seminary For Women

THE WESTERN OXFORD, OHIO

THE forty-sixth jear of this institution for the 13, 1899. The college is located on an eminence commanding picturesque riews of the Miami
country, is one of the most beautiful and healthful regions of Ohio. a rolling campus of sixty five acres contains fine athletic grounds and beautiful walks well shaded with trees. Students are limited to 160 . Two large buildings affor given to light, heat, ventilation, drainage and Water supply, and experts pronounce the sanita-
tion perfect. The Western was chartered in 1853 tion pe
as the
adranced to full college work, in 1895 a ne
charter was obtained and the name changed
The Western, a College and Seminary for Women The college is distinctly Christian, though undenominational in character. An anle faculy thoroughly abreast of the times in culture and scholarship. For course of study, terms and other information address
MISS LEILA S. McKEE, Ph.D., President,

cancer





PARLOR ORGANS

LYON \& HEALY, chiccaiao, stil.



WHY TOM LEAVES THE FARM kitchen fire. Other little chores were added, and by the time he had reached the dignity of "pants" he had learned to play near the mother. It is not long after that he one day, just to please his father, fills the feedenceforth it is his business to keep them filled. Tom isn't tall enough to get more than half a stroke on the high wooden
pump, but the boy can take his time and it will be quite a help to keep the wateringtrough always full of water. Other little chores are added as time goes on, and gradworking force on the farm. Lie does not play, attend picnics and risit as docs his city less. He compares his own stubly, sunburned, toil-hardened hands with the shapely, nimble fingers of the other boy; notes the differeuce in his own awkward motions with the athletics of the village oungsters. He does not understand why boys must in some way be superior to him. But there 1
At school Tom is a bright boy. The manner in which his teachers speak of him cause his parents' hearts to swell with pride. His promotions follow in rapid succession, and But alas! There comes a time when Tom must stay out a few days to help at home, other days that follow, and Ton is forced o quit school. He tries to keep up by studythe necessary attention after a few days' work. Perhaps he can attend school next But a late fall keeps him at work the then. the holidays, and the spring's work takes him out before he has scarce attended the ies his city required by law. How Tom enmonths out of the year, yet he does not that there is something better in life than what he is gettiug. But that thought does not cause hiun to put forth less effort. On the contrary, he works with greater deterambition of his life-to attend college. In the old days-only' a few years, but seemngly an age to Tom-the father had said the learn. He meant it then; but now in the hurry and drive Tom is no longer winning honors, and the college is forgotten, but not by Tom. To be sure, he was no longer
among the smallest of his class; quite the through, and then-
Tom is a steady, sober fellow, hut like ation, a few pleasures and privileges. But His clothes have " feeling that is embarrassing in itself, his feet worry him, and he does not linew, his feet
whatring
to put his hands. He thinks, in his selfconscious way, that he is a roided, or worse
yet, forgotten or unnoticed. Bitterly he notes the difference now which environment he knows to be his inferiors intellectually and morally. He sees aud complains bitterly at the fate that has set him without the He knows he has little to offer the society: world. He is only an awkward, sun-browned, spent their lives in society?
Tom is not a fool. For a time the family notice that he goes about in a preoccupied mamer. He is thinking decp and hard. In
fact, it is the crisis of his life. One day he braces up and talks to his father and tells
hin that he is determined to quit the farm. Tom has always been a good hoy, faithful and trusty, and so obedient that now as
the father is a little angry his son is told plainly that he is not to thiuk of leaving the plow. Tom makes no reply, yet there is a
momentary flash of the eve and hardening of the muscles in the face that remind the father that in a short time, a very short time, Tom will be his own man. Then he argument, and in the end the man in his heart admits that the boy is right. Too late he realizes that good, noble-hearted Tom
has always had a hard row to hoe, and that has always had a hard row to hoe, and that
he is ill prepared to battle with the world. he is ill prepared to battle with the world certain. Other boys are ready to take up
the real burden of life, but Tom must spend the real burden of life, but Tom must spen
the years of early manhood in preparation. Will he win? If an indomitable will, a unconquerable ambition to rise, can overcome a physique weakened by overwork, Tom will martyr to a mistaken idea of economy. Onl
mone mor one more life ruined by a system that tend
to leare only the slothful and unambitious boys on the farm, while those who wish to rise higher are forced to seek other walk The noblest heritage a father can pas sound body. The average farmer, through ing both to the one idea of gain. In romance ally the farmer boy is the picture of health little observatiou will show. Twenty pe cent of the farm boys examined in Kansas ment under the first two calls for volunteers after war broke out with Spain. Of course attempted to pass. I venture the assertion that, taken as a whole, forty per cent woul fail. Heart disease, lung trouble and rheu out of teu caused by overwork.

## sow pure seed

In your issue of July 1, 1899, page three, seed. Mr. Grundy's experience is the sam as that of huudreds of farmers, but stil before planting. The Departuient of Agri culture has offered for several years to te seeds for farmers, but the samples do not -I hope your readers will make note of Mr Grundy's experience, and send us samples of their clover and grass seed before plant-
ing. It is a good plan to buy seed early, send us a sample before the busy
so that we can answer promptly

## Ver promptly.

J. Pieters,

In charge of Pure-seed Investigations Wh charge of Pure-seed Investigatio EXTRACTS FROM CORRESPONDENCE From Mrssorri,-Ripler and adjoining
comnties are rery rough. only the creek and
river ralleys being susceptible of cultivation. Hiver ralleys being susceptible of cultivation.
huring the spriug and summer seasons the
wild grass grows in rich profusion, affording wild grass grows in rich profusion, affordin sheel, which thrive for seven months in the
earr without being fed. Farming and stock raising is the principal Farming and stock the main erop. There is alwars a local de
mand for it at forty and fifty cents a bushel county is unsurpasserl in the state for it forry to evergrem pine, which, we are

WALTHAM WATCHES
The best and most reliable timekeepers made in this country or in any other.

## The "Riverside" (trademaras) movement is jeweled throughout with wubies and sapphives.

## For sale by all jewelers. <br> FR EE

Distribution of 100,000 Bottles of the

FAMOUS RHEUMATIC RENEDYY
Dr. Swift Curing Thousands in Every State

Read What Sufferers Say---Then Send for a Free Bottle Before the Distribution Closes

The free distribution of 100,000 bottles of Dr. Swift's famous Rheumatic and Gout Cure is working miracles everywhere
No form of rheumatism can long with stand the great powers of the specific which is astonishing doctors and patients.
No matter how long you have suffered, Dr. Swift will cure you if a cure is possible Mrs. M. E. Geraud, Sedalia, Ohio, write that she is considerably improved alreadyin one day.
Mrs. Will Peterson, Taneyville, Mo., write that the free bottle was used by her little daughter with remarkable results, and tha Dr. Swift's treatment is the most wonderful
in the world. The family doctor had pre in the world. The family doctor had pre-
viously failed, also scores of well-advertised viously failed, also scores of well-adrer
remedies.
Chas. E. Sindorf, 221 Painter St., Greens Clias. E. Sindorf, 221 Painter St., Greens
burg, Pa., writes that he got immediate relief from the free bottle after all othe reatments failed
These are but sample cases of hundreds constantly coming in from all parts of the country from the use of the free bottles alone. In many cases complete cures are obtained in two days, and the best proof of the superiority of Dr. Swift's Rheumatic and Gout Cure orer all others is the fact that those who have received the free bot tles are writing their friends, urging them to send before too late.
By this distribution Dr. Swift will demon strate to a certainty that he has discovered an absolute cure for the worst cases o rheumatism which are to-day baflling doc tors and hospitals alike. If you want book of testimonials, it will be mailed on request; but don't fail to write at once for one of the free bottles. They contain full twenty-fire doses, instead of the usual thre or four doses sent out by imitators, and will be mailed free upon receipt of ten cents in stamps or silver to prepay cost. York. bottles $\$ 2.50-\mathrm{a}$ month's treatment. Guar anteed to cure or money refunded.
AGENTS WANTED in every town send for special terms showing how $\$ 182.00$
$\frac{2 \text { mont can }}{\text { THROW AWAY YOUR HAT PINS }}$

acear | The Ideal |
| :---: |
| Hat Fastener |



PAGE
WE DON'T KNOW
PAGE WOVEX WIREAEXCECO., ADRIAN, MICH.


Tagriculture. So hare declared the poets, the philosophers, and the nearness of Nature that ennolles, and to Nature's heart as ulling the soil, plantthe boys born on a farm rarely follow the necessity compels them to.
A number of influences have been at work dreams of the city, the sea, the factory; the shop, or any employment at which a livelifarm. Tou is not a fool. He can see and reason from observation. He sees his father, an intelligent, ambitious mall, broken in
health at middle age, compelled to work every day beyond his strength, working from
dawn to dark, going to bed as soon as the evening chores are finished, too tired to rest, and rising again at daylight to begin another day of toil unrested from the previous day's
labor. He compares this with the business or professional man's privileges, with the morning, noon and evening hours for rest, ing thoughts of stock-at home, or of hay or corn needing his attention, to iuterfere with the rest of mind and body:
He compares his own privileges with his he had no worl' to do. The wood-pile was near the kitchen door, and his baby hands were early taught to fill the basket, too
large for him to carry, with chips for the




Questions from regular suhscrihers of Farsi and
FIBESIDE relating to matters of general interest Will he answered in these columns free of charge.
Querlsts desiring immediate replies. or asking informatlon upon matters of personan interest only, should
Inclose stamps for retnrin postage. The full name and
post-office address of the inquirer shoull acconnpany
年 WEEKS hefore the date of the issue in which the
answer is expected. Queries should not be written
$\qquad$

$\qquad$ keep tomatoes fresh through the winter."
REPLI:-In the fall select thriftr rines loaded with fruit. Protect them from the carpets, matting. etc. When there is dange graduall,, thus prolonging the season of
fresh tomatoes until midrinter. Writes: "I hare some land which will be beneficial to put in a crop this fall to be
plowed under next spring? If so, what crop Reply:-The land would be henefited by
having a cover-crop. and under the circumand would make considerable growth in the
fall and early spriug. Plow under carefully, weeds in the garden
Watermelons Roting-Receipt for
Soap.-T. R. K., Yemassee. S. C., writes: Can rou tell me why my watermelons rot seedsman in Augusta, and planted in beds in
light sandr land. I used one half bushel
of compost from mr cow stable to the hill, cotton-seed meal, acid phosphate and kanit to
the hill. Quite a number are rotten at the
end. Would be glad if some reader would give me a receipt for making soap."
REPEY BI T. GREINER:-Possibly the ground made too rich. Watermelons Will do best
n land of medium fertilitr. Possibly some pond with soap receipts. How do sou makc Bitter Cucumbers.-E. L. P., Wilton, bill in a can in my little greenhouse very one so far is as bitter as quinine. I planted
the New Ererlasting. Had the same trouble ast year. I then lived in the citr and bought ther
to throw them awar. They were raised in
the Springfield market-gardens planted another kind now, hoping for better Replix by T. Greiner:-Efers one who has doors or under glass. knows that we find occasionally a bitter specimen among them
r beliere (but am not sure) that the plant meus on one plant which gires one hitter iving bitter specin

## 

May be Ringbone.-M. L. J., Zucker, Cal.
According to rour description (the sketch sou
speak of has not come to hand) the hard
swelling, if on the coronet-joint, or joint beswelling, if on the coronet-joint, or joint be-
tweeu the frst aud second phalanges is prob-
ably a case of ringbone. If the horse is not

## Potash.

FARMERS should know its value and applied to their grain crops.
Our illustrated books which tell what Potash is, how it should be used, and how much Potash a well-balanced fertilshould contain are sent free to all applicants. Send your address.

## GERMAN KALI WORKS,

Mr. Ehtor:-My crop of Fultzo-Mediter ranean Wheat yielded 3,309 bushels on 80 acres. Average over 41 bus. Part of it was on corn ground, which cut the average down Seedsman of this place of whom your readers can get free samples if they mention this paper. It is the greatest wheat I
 For Man and Beast
An Infallible remedy for Rheumatism, Cuts, it acts like magic. Sample sent free on applicaSPANISH NETTLE OIL CO., ST. LOUIS, MO CREAM TESTER, 50 c


eannot answer.
According to sour deseription it appe
probable that beneath the "callous lump," a the spinous process of one or two of the
dorsal rertebrae have become inrolved and become necrotic at the end. At any rate, th
would fully explain the condition as you d

## onls the "callous lump." very likelys original

## TYPEWRITER HEADQUARTERS

SALESMEN WANTED
Don't wait; go right to work, send s1.00
for samples, Express prepaiid to you.
. L. GROSS, Tam7pa, FIorida


##  <br> THE PROFESSOR'S <br> TRIALSOME QUEST

By Annic Hamilton Donnell

Pavoma Clafr tristed her lurch; for the dear lands sabe, no! ril see neat print apron nervous.
ly. It was not the tirst time she bad found the
Irofessor a a difficult man
man to talk to- aud to tall a hout John Peter:
"The Lord belp murinurea Pavonla. earn estly. She looked orer at
the Professor"s intent, bending figure at the mriting-desk, and knew
she must begin all over again. "He's clean forgot
I'm here at all," she Im here at all," st
groaned inwardls. Th polished floor. making each one indiridually distinct and impressive. The Professor looked
"dh, Paronia, it is you? I did not bear rou come in," he said, kindly. The intent expression on his face mas changing to covert uneasiness. sweeping-day came so lose a minute's work on his magazine article lose a minute's work on his mage
The absence of a broom in Paronia's hand failed to conver any meaning to the Profess or. He got up aud pushed together his papers with the resignation of despair.
"Vers well. Paronia, rery well." sighed; "hut on no account dust these pers."
"For the dear land's sakc, Professor, it ain't
sweepin'-dar." cried Paronia, "it's a Wednesday: I didn't come in for that. I-I calculated it was time I told rou about John I'eter's not bein' willin' to wait any longer. 1 didn't like to trouble the Professoress. Paronia had almays called the frail, sweet-
faced little inralid wife up-stairs the Professfaced
oress. The Professor's face grew tender at once.
Onn no account, Paronia. Iou mere right. 9n no account trouble The Little Woman!" called her The Little Toman. "Come to me always. And-er-what was it rou said?
simon Peter is waiting for me and is unwilling to wait longer? No, no, certainly not show Simon Peter in at once, Paronia. Taronia Clapp's good plain face reddened
little. "He ain't waitin' for rou, John Peter ain't," she said. bluntly. "He's waitin' for me. and he sars he don't feel to wait any
longer. He's got the house all readr. He
"'Yes-er?", murmured the Professor, absent5. He mas fumbling over his pages of man-
iscript. "I think rou said-er-". '"No, it warn't me, it was John
said he wauted to get married without ans more foolin' round and waitin
"Ah!" The Professor woke up and relapsed iuterval of a moment. He bad a faint glimpse of John Peter in the interral.
ied at once-it is the common lot of man. 'ray extend ms congrat-"
"He wants to marry me," Parouia inter"Oh!" calmly
Paronia: Simon Peter wanted to marrs Paronia!
The Professor gasped helplessly once or
twice. The borror of life withont Parania twice. The horror of life withont Paronia
shut him in as with a fog of despair. In
that moment the broom, even the hroom was forgiven Paronia. The Professor found himself offering as a plea for mercy the
broon sereu times a meek. "And rou can-er-dust my papers," he added, meekly. Paronia's light-blue eres filled with tears. She put out one of her hard red hands and gently touched the Professor's slim white
one. "For the dear land's sake!" she cried, unevenly, 'I don't want to-it's John Peter! a-hold of the reins hisself. And now there ain't no puttir' John Peter off.'
For a moment in the big sunns library it was quiet. The Professor was thinking of
the sereu peaceful rears he and The Little The sereu peaceful sears he and The Little Homan-and ravonia-had liscd together.
He was telliug himself how little of the fret and fuss of life ourside had crept in to thembow only the shadow of pain had marred the
serene peace. dnd in his heart the I'rofessor recognized Parouia's quiet share in it. He thought he would tell her so-it might orer-
balance John Peter, for at least an extensiou of their comfort-The Little Woman's and
his.
Paronla was thinkiug of the seren peacefnl rears, too. "But I'll star until you get anoth-
er girl,". she began, eagerls. as if in selfer girl," she began, eagerly. as if in self-
justification. "Jobn Peter"ll have to rait that much longer. I told him so. I ain't

John 1 don't know how long hell stand it. There plenity of girls-I suppose yon'll see to gettiu one so not to trouble the Professoress?
Paronit's roice Was undertoned with doub Her valiant faith iu the Professor wavere before this ver duty that scemed thris upou him. She could scarcely imagine the
Professor performing it, but Parouia's imagProfessor performing
iuatiou mas uot keen.
The Professor jumped iuto the breach with no hesitation.
"Certainly, certainls. I will attend to the matter myself," be said. The gloom was still in his face, and unconsciously his voice had consciously.
"It is a simple matter enough. I will at tend to it at once-this afternoon. There hare no uneasiness-no uneasiness at all." If the bolt must fall, let it fall immediate1y. Certainls, certainly: the sooner the hettroubled The Little foman must not be The Professor was of paramonnt importance ou that point.
u that point
A little later the Professor went down tow -iu the daily papers. Paronia had adrised it. Before he started he ran up-stairs to The Little Toman's room. First and last the Professor almays went there. "Oh, Dear Bor, is that yon?" The Little Woman cried, brightly. "How r've been
tening for sour leaps on the stairs!", "And then how yon heard them coming, Little Woman! You see my muscles haven lost their college
conld plas foot-ball.
"Nerer." cried The Little Woman, iu mock terror. She had drawn down the brown hearded face to the lerel of her own whit
"'Dear Boy!" she whispered.
gin it with small letters,", he said homan; b "Small letters is it indeed? humbly, ou call me The Little Toman with a big L and a big W!!"
"And if I didn"t?"
"Not then, eithe
Dear Bor, world without end, and I shall say it all capitals if I choose, sir-listen!
She put her thin cheek to his face and whispered it, and all the capitals were in ber sweet roice. After that the Professor had gone down town.
The next day he sat in his lihrary and waited. It was balf through the long warm caller. The Professor had his speech in in stant readiness and hurried into it precipitately.
ou wish a-er-place? Certainly, certainly," he said. "If rou will allow me a fent their proper sequence. No. 1-How here in did rou lise in rour last place?" raronia in and he had given it the place of importance at the list's bead.
"How long did you live in rour last place?
the Professor repeated. not hearing ans re ply. Still silence. Out of kind-heartedness he went on to the next question. No. 1 was thought of that.
"Can rou cook plain cooking?" be repeated gently. His eyes were still on the paper in his hand. "I will ask them all at ouce, and give her time to get up her courage," be thought, smoothing out the paper on his knee
"No. 3-dre rou accustomed to entertain uuch-er-company evenings?
"No. 4-What wages do sou expect?

## er-invalids?

The Professor stopped ahruptly. He wished be had not worded the last question tuat The burt of it rankled in his beart. He and Paronia nerer called The Little Woman a inralid.
A soft
tustle of silk broke the silence in the caller drawing a beary silken wrap about ber shoulders. She was standing, impressive and tall. against the background of hooks. She was smiling a little. Eren to the Pro culture about her mas puzzling.
to called to recommend one of our gits Union." she said; "rre hare alwars a number of good girls who are seeking situations." "Ah!" gasped the poor Professor.
He was virthally unconscious of what was minutes later at the windor, watching fer minutes later at the windor, watching th was twlrling a card between his fingers. The
name on it, wheu be remembered to read reduced him to the extremity of horror.
"Her hushand's worth a million if he:s "Her hushand's worth a million if he's
worth a dollar,", he groaned. And he hat she bad been long in her last place-and what wages she expected! No. 1. No. 2 alud No. 7 glec. Try as he might, he conld not get out of their reachl. war and in
narrow slit
"Well ?", she cried, iu a shrill whisper.
"Well?" echoed the Professor, stnpidly "Ald, yes-er-certaiuly, certainly
Taronia's wholc figure appeared suddenly
in the door. She indicated with suddenls
in the door. She indicated with her thumb
fine ${ }^{\circ}$ little trap
Hou asked her all them questions?" she gloomils.

All them questions:"
"All them questions," repeated the Pro fessor, mechanicalls.

The Lord help us!" murmured Patronia
Clapp.
The next applicant had thiugs all ber own
may. The Professor had put aside his neat
little list of questions, aud sat beside his tableful of papers in bewildered silence. It tableful of papers in bewildered silence.
was the new applicant who asked the ques tions. She sat up straight and aggressire on the edge of her chair, and plied them, one by one, with the regularity of a questionmachiue.
"Be you married?"
Profecertainly, certainls," murmured the "Got a fambly?"
A fambly! The Professor pondered the question doubtfully. Had be anything likea fambly? Ab-a light breaking in upon bim-certaiuly, certainly, a famils
"Hes?" repeated the strident voice of the
"Yes, certain
"Yes, certainly, certainls-a family," said
the Professor, thinking of The the Professor, thinking of The Little Woman and Paronia.
"How mans
"How mans"
"ET-t wo."
"Two? Male or female
The Professor drew a long patient breath "Female-certainly!"
"Be they any trouble?" trouble! The patience ranished from the Professor's face like dew before the sun. settled back on her chair with diminished as sertireness. "I didn't know; children is sometimes," she muttered. "There mas six to my last "And may be sixty 'to' your next!", cried the Professor, getting to his feet.
Two or three moie women and girls called between midafternoon and candle-light, but the Professor fonnd none of them satisfactory. One objected to the work; anothe Tished to entertain her cousins in the parlo three evenings in the week, and the last one wished worn little woman, with tired eyes,
have the privilege of "running in" to se her at all times. Pavonia had prorided rers emphatic adrice for such an emergencs and the Professor remembered it just in time. "I could not-er-allow that." he said, rery gently, his kind face full of pity for the worn little mother. He could not bear to disap-
point her. When she ment away-he had point her. When she rent away he had
slipped something into her hand. "For the slipped something into her hand. "For the
little children-certainls, certainly!" be bad hittle children-certainls, certainly, be had
murmured, and the tired face was smiling all, the way down-stairs and out into the lamp-lighted street.
The next day and the next were monot onous repetitions of the first one. The Professor went up-stairs to The Little Toman's rooms looking jaded and pale.
". Dear Boy, sou are sick!" The Little Woman cried
"Sick?" laughed the Professor, noisils "Not a bit of it, Little Noman! I'se only been working hard.
"Where hare rou been, Dear Bor?" per-
sisted the sweet voice.
sisted the sweet voice.
"In purgato-that is-er-in the library,"
the Professor said, hurrying on to safe ground.
On the third das of his inquisition the Professor had in engagentent down town. Hc was on the examining board, aud two or three cies in the citr schools. The competitors met in the lecture-room of the high school to be examined. The hoard chose each an applicaut to himself and the oral questions hegan. The teacher in front of the Professor was and the file of little sisters and brothers tocing the line in the background of her thoughts lent painful eagerness to her manner. Her face was intently serious and little
anxious lines creased its smooth surface and anxious lines creased its smooth surface and made it painfully wistful.
"How long were you in your last place?" questioned the Professor. His roice sounded
mechanical, as if he were repeatiug a wellmechanical, as
the girl.
ith meehanical proup nesio He wis in With mechanical promp.ness. H. wats $i$-king
off No. 1 and No. 2 ou his fingers mentaliy. for replies
"Are rou onsider esseng (No. 3)? What wages do you The Professor's rapid questions ended bed into the late monld be teate ers astonished face and wotke uy with a
gas. The ridiculousnesis of the situation appealed simultaneonsly to them both. :man
ther began to laugh. it was a bond of sim they began to laugh. It was a bond of s.mm-
pathy between them and the new examination began under the nonst friendly auspicco. The little teacher went back to the file of the and sisters radiant.
Iree got it! I've got it?" she cried, hug The Professor one in turn. rested. Parouia stndied his face earuestly from the kitchen window. The cloud of anxlety ore
looked.
"He looks easier in bis mind." thought Paronia. "And the dear land knows he
needed to! $r$ couldn't have stoorl it much needed to! I couldn't have stood it much
longer, and I told John Peter so. I told John Peter so last nigb
Peter's face whe was remembering Jobn memors of it disturbed ber. "Poor John Peter!" Paronia murmured and poor Professor, too-for the dear land's sake, 5es He's a-passin throngh deep
waters, the Professor is!", him again. He the deep waters clos desire to fall in with Paronia's John Peterthe Professor called him simon Peter-and to shake him with all the fervor of his mood and thought sth of his big muscres. Pis glooms face and so warned John Peter at the first opportunity.
"He ain't safe to meet just now, John good trouncin' than not, the Professor would, and I don't feel to blame him ans
The summer days put on autumu airs after a little. A girl mas at length engaged to take Paronia's place, and John Peter's star rose set. ascendancy. In fesh that the Professor plucked out soon, in sheer distress. Another and another "thorn"" succeeded ber, until peace and comfort were so long-absent things in the Professors daily existence that he could scarcely remember them at all. There was no more peace downstairs. Up-stairs in The Little Woman's room it still lingered as if loth to leare, but its presence
One day when the first snow was frosting he world thinly the Professor and Pavonia net down torn. Paronia "Tappr. The Professor was thin and grave. "Tell?", echoed the Pr
"Who's there now?"
The Professor smiled patiently
"A moman-certainls, certainls." be said. cook, but she-er-means well. She cannot little children.

## Paronia stared into his face, grim and

 waiting."Do the little children run in and out to see her jest when ther mant to?" she demanded, sharpls
'E1-rinn in and out? No, certainls. Not out. They run in-I think ther are perpetally running."
"What sar"
"What say"." gasped Paronia.
The Professor was still smiling patiently. "They star there all the time; there are "The Lord help us!"
"The Lord help us!" breathed Paronia their cozy supper, "I're got something on my mind.'
John Peter had just done justice to one of pirits choicest meals and was in the best upon. He the little table and took paronia in his arms.
"Let me heft it an' calc'late if it's ans account," he laughed
Pavonia smoothed his rough cheek with her "Jough fingers.
"John Peter, I'm going back
"Eh? Goin' "where Pave
"Back. I'm goin". I can't stand it any onger. There's a woman and fire children oress. I can't stand that. I'm going, John Peter, and jou can go, too, if sou want to. You can do jest as the American eagle

There was ahsolute quiet in the $\operatorname{shin} 5$ little kitchen a moment, sare for the suhdued sounds when John Peter swallowed hard.
"But, John Peter-""
Paronia crept up close
"But I guess the dmerican eagle would go along, too, John Peter, don't you?"'
"You het he would-all flyin'?" eried John "You het he would-all flyin"!"
Peter, in his great bearty voice.
"So it was that after manr tempests the old peace again in the Professor's sonl.
old peace again in the Professor's sonl.

## WAKING DREAMS

 Detween minne eyelids and mine eLike red and satin ponpr-leave Like red and satin poppy-leave, They linger when my spirit grieres They quench the fever in ing brai And kiss ms hopes to life again, Between mine eyelids and miue eyes,
Like star-beams melting iuto peace, Drift on the visious out of skies Wherein eternal years iucrease lose my anchorage to earth, And feel the light of second birth

Bet ween mine eyellds and mine ejes,
With love's bright mysters aud grace, My precious friends without diszuis
Walk slowly midst the trees and flowers, Or sleep within the garden bowers-
Between mine ey elids aud mine ejes.
Between mine eyelids and mine ejes A wandering spirit sweet as sleep
Comes singing where the raylight dies; And tuneful fulli
Begem the path her foutslews tout
In hers my dim-eyed soul saw God In hers my dim-eyed soul saw God,
etween mine eyelids aud mine eyes.
Between mine eyelids and mine eyes,
I live and conquer. see and know.
Oh, let my spirit on this wise
Along the trackless confines go:
o other unirerse so sweet
As this-forever bright, complete-
r. Frank W. Gunsaulus, in Saturday Evening

## STATISTICS OF MARRIAGE

The Cnited States government has puhlished a chart of unmarried men and women. It is a map, printed in colors, and shows at a
glance in what localities hachelors are thickest. and in what regions spinsters are most worked out in this graphic fashion to such a fine point that any unappropriated person of either sex may learn in a moment exactly the uiatrimonial expectation, reckoned on a per-
centage basis, which he or she will secnre by changiug resi
Cuited States
In Massachusetts, for example, there are at the present time 224,368 hachelors of of spinsters in that state is 218,070 . Betwen the ages of twenty and twentr-four there
are $9 \pi, 816$ hachelors, and $90, i+9$ maidens: Betreen twenty-five and twenty-nine there are 55,640 bachelors and 48,269 spinsters.
Between thirts and thirty-four there are 28.033 bachelors and 25,456 spinsters. Be tween thirtr-four and forty-four there are
24.811 bachelors and 26,490 maidens. Betreen forty-five and fifty-four there are 10,197 bachelors and $13,9+3$ spinsters. Between fifty-fire 7, 109 maidens. From sisty-five years upward there are 3,167 bachelors and 5, iTit spinsters. The hachero in unasachase by of per cent.
People generalls hare heen greatly mismous surplus of unmaried women in this conntry. No such excess of spinsters exists;
in fact, it is quite the other way, the bachelo.s ontnumhering the maidens. At the pres-
eut moment there are in the Chited States $2,200,000$ more unattached males than females similarly situated, the exact figures being
$\overline{5} \cdot 427,76 \overline{7}$ bacbelors against $3.224,444$ spinsters, of ages from twenty years up. Thus, if girls do not find husbands, it is not for lack of pleutiful supply. What is required seeming!y and East to the great and growing West, in for erery maid.
there is actually an excess of unmarried women in the northern and castern states.
Even in those parts of the country there are nore hachelors than spinsters twenty years
old and upward. No state in the Cuion has as many maidens as bachelors-not eren spinsters against $226,05.5$ ha achusetts is the hauner state for spinsters, troo tenths of one per cent. In Rhode Istan
the excess of bachelors is two per ernt. The excess of is eight per cent. in North carolima nine per cent, In New Hampshlre nlne per cent, in
Connectlcut twenty per cent, in Malne thirtsscwen per cent, aud in Vermont fifty-four pe
cont. In Maryland the backelor surplas is

## two per cent, In New York it Is twenty-sls <br> of far as the superiorlty <br> glance at the marrlage chart shows some surprising facts about surplus bachelors in some parts of the ountry. Idabo takes the lead as a deslrable place of residence for  hent against 1,420 single wolnen 1 wh 11

ninetr-three per ceut, the fignres beiug 16,-
183 bachelors against 1.487 maidens. Arizona is uext. With a surplus of mine bundred and thirty-one per cent. the figures being 13.649
against 1.226 . Washington has an excess of aguinst 1.326. Washington has an excess of seven hundred and serentr-seven per cent in
hachelors., the figures being 80.637 against 9.181. Nerada is a good fifth. with a surplus of six hundred and serenty-eight per cent of galinst 1,62 . It will be understood that no widowers are included in ans of these stateidowers are included in ans of these state-
ments, nor set any dirorced people. All of both sexes below twent, years are left out. With these figures in hand it ought not to ecure a hushand. She does not need many charms to secure a mate in a region like daho or Troming. Where there are ten bachlors for every availahle maiden. A premium f one thousund per cent is a practical assurance of matrimons. Other places where the ia with three hundred and seren wia with three husked and seven per cent ent, Florida with one hundred and twentrtro per cent, Kansas with one hundred and fiftr-eight per cent, Michigan with one hun-fifty-eight per cent, Minchigan with one hun hundred and forty-eight per cent, Missouri ith ninetr-six per cent, Nehraska with two hundred and fourteen per cent, New Mexico with two hundred and ninets per cent, North Dakota with two hundred and ninety-four per cent. Oklahoma with four hundred and hundred and eightr-two per cent, Texas with wo hundred and four per cent, Utah with Tro hundred and serenty-fire per cent, Monnd Oreson with forr bund and and Oregon with four hundred and twelve
per cent. It will appear to the casual reader at the
first glance that these figures are rers extraordinary. Thes make it seem as if the total number of males in the country was enormously greater than the total numher mass of the population in each state is paired off hy marriage evenly as hetreen the sexes learing only a comparatirely small fraction of single persons of marriageahle age. Only this fraction is considered in the presen statement and in most states the male part of he fraction is much in excess of the femal part, and hence the great percentages of hachelor surphis quoted. In the whole of he country there are $5,427,767$ bachelors ty-eight per cent of hachelors over the unnarried women.

## ORIGIN OF THE TERM "MISS"

"Miss" is commonls assumed to he an abhreviation of "mistress"-and this may he true; but it was not a corruption, nor a form
unconsciously introduced. John Erelsn has left a record of the date and circumstances. (n 1662 be goes to see the "fair and famous comedian call'd Roxalana, from the part she performed," and learns that she has "heen taken for the Erle of Oxford's misse, as at that time they began to call lewd women. In "1666 he speaks of "fowle and undecent women who hecame misses and sometimes wires of the roung gallants." Agàin Erelsn Then the king attended with a "misse, did word undergo a stranger revolution! I aid word undergo a stranger revolution! call a round ladr ""Miss" at that time. But here is a rers strong illustratiou of the rul bat terms realiy wanted will cain a place in the language, be the objections what ther
mar. Hitherto there bad been no distinguish ing title for soung girls, saring those rauks of life There " Mademoiselle"-more common1y "Demoisclle"-was current. Elsewhere a married woman and her daughter had "mis tress" in common. Tre do not recall any allusions to the inconrenience which must have followed, but the eagerness with which Miss" was accepted, in spite of the gravest felt. An attempt had heen made apparently o naturalize "madaun" as the title of a maruse woman, thas freeing "mistress's exclusively. But it never suc ceeded with the middle class, and it had be come old-fashioned in the time of the Stuarts: rillagers speaking of the great lady of the "Madani so-and-So." But there was little
help there, and the embarrassment must hare grown continually as sociat intermurse berarae niore geueral. It is not extravagant man's wife as his "lidy", was in eifort to
escape It. One uust turn half a hundred pages of Evelyn's diary to find the name of a
married womam, unless she hass a title of marricd woman, unless she has a title of
nohility-always it is "hls lady." but in the Mper circles "Miss" won its way slnwis,
We may weuture to sar that th docs not occonr dence, nor does "Madam," applied to au
Finglishwoman. Little glrts and thelr graulmothers are "Mrs." alike. It is to be ohserved. however, that Pope uses "M1ss"
freely In the same era. Lady Mary and
others of her rauk may probibly have

Thist Pope would nerer hear the story uu
less br chance. Stecle, in the "Guardian, addressed a girl of tifteen as "Mrs.". aud Ladr Bute left it ou record that she, horn in 1i18, remembered some old ladies who always called her "Mrs." iu the nursery.
L'uder such circumstauces it is no wonder that "Miss" triumphed orer its evil assoc for the A woul for the conveuience of life aud the pu
of cirilized societr.-London Speaker.

## EARN THEIR BREAD

Four million wounen in the United States earn their own breal. Thes have inraded all occupations, and one third of all person gaged in professional serrice are women. Feminine teacbers and professors numh teachers of music, who are 34,513 strong There artists and teachers of art
There are $1.1+3$ women clergymen.
Journalists number SSS, with 2,725 authors and literary persons.
of chemists, assayers aud metallurgists Lawy two score lacking one.
Lawyers who are not men are 208 .
Feminine detectires are 279 in number.
Nineteen women brave the dangers of wild and forests as trappers and guides.
Only two women hare heen discorered who re reterinary surgeons
In Texas, a woman has the contract for arrying the mail from Kiffe to Seirnal Hall. Georgia has a woman mail-carrier: she trar a forty-mile route tri-weekly. This rouns oman also manace a farm.
The Chamber of Conomerce, Cincinnati, bas Scotch women. and ther clear about $\$ 15,000$ rearls, although their annual rental is $\$ \check{0}, 000$ In New Orleans one of the finest orchestras composed entirely of women.
In Astoria, Long Island, manr of
then are managed hy women. In New York a blacksmith's shop is manged by three roung women.
All the salted almonds sold br oue of Nem York's largest groceries are prepared by moman, who is conducting a profitable husiness thereh,
A fact foundry-or an agency for supplying facts upon ans suhject at a short
the industry of two Chicago damsels
the industry of two Chicago damsels.
Packing trunks is a St. Louis woman's industry.
The most flourishing conservatory and rose managed in Elmira, New York, is owned and At the Young Men's Curistian Association, Philadelphia, two soung women are in charge of the elerator.
Women writ-servers are employed with
Buffalo hoasts a woman contractor who i also a quarry orner; she is the only femiaine memher of the building exchange.
painting signs.
The woman ance compans is credited with the largest salary paid to any woman- $\$ 10.000$ a year
As agents for selling law hooks women
ccupr almost the entire field.
is a moma successful ranct-ine rears of age There is a proverh to the effect that in Kansas there is no interest, no profession, no trade and no deal mitbout a moman in
In Boston are two large advertising agen cies, the memhers of hoth firms heing women
and all their employecs women. and all their employecs wome
In a Nem England factory riomen are emplored as piano-makers
eral western railroads.
ing.

## Louisian <br> Louisiana woman supports herself by

 Wrising miut.Wring
oup war of earning a lirellhood.
ousnlting fashion
One of the largest flower-lmporting estab-
lishuments in New fork is managed by :

## lishunents

The largest typerriting business in the
Forld is in New York aud conducted by two
An entire block of houses in New York was papered hy a roung wiman, whe takes tha
contract for sucb orders from large huild res.
One roung woman in fintlian is emp
About three handred girls are emplored in the harness trade iu Now York.

HOW OLD GLORY IS MADE
Since that day when Panl Jones first un-
 many changes. SInce that time, to $n$, the number of our natlonal flags, has somewhat in patrintic eltacur of this republic has a very rague ldea of the number of stars and stripes world. All these flags have to be duty madeanother fact which the ordmary witizen floe not often taks the trouble to remember. hlems uscd la our narger in of mational em-
ice, on government and municipal huildings, he also in less official capacities, renders dant elublems in hunting a rery importan industrs.
Another hranch of the flag husiness her no means insignificant is the repairing aud patching of gorernment flags. This mork has o he done by expert bauds, and the greatest In Brooklrn, for instance, in lts performance. ishment entirely devoted to the repairing of aral fags and pendants.
The mere landluhher has no idea of the number of flags in use in the American nary. Every ressel golng into commission finds it ncludes, hesldes the national fiag the raplous ensigns and admirals' flags, some halfach sets of slgnal-flags in different sizcs. dants, and a selectlon of colors representing ifferent forcign nationalities,
The orders for new flags come into the department at odd times and in rarring quantities, hut come they always do, for it must be remembered that the life of the ordinary lgyal-flag does not average more than six fars aliogether, ags altogether, so 10 preparation
The material generalls nsed for the man facture of these rery necessary trifles is worsted hunting. This hunting is specially dred for the purpose, and made of such strength that it will stand the test of a specfied strain. After the different patterns are cut as desired ther are fitted in a specially onstructed machine which, by an ingenious rrangement, imposes a haulage test of almost 100 pounds on the fabric. If the matelal does not tear uider thls test it is handed orer to the sewers and made into the reguation patterns and comhinations. The colors chiefly used are red, white, narr blue and relduck is etmplored especially for bung dge or "hending," to whi for back means of which the fin is dinn up, is at means of
For their guidance while emplosed in mat ng our naral fiacs the different persons at work are supplled with the gorernment's officlal tlag-hook, in which several hundreds of differeut flags are dlsplased in their correct dimensions and colorings. It is not mere carice that governs the size which a flag shall be made, this being laid down with the utmost precision hy the oflccals at Washington. each grade of size bas a particmay signif icance, and is regulated by the proper officlals. made of extraordinary length, the longest anging from Janila she few a pendant 285 feet In length It sometimes happens that a country has found it expedient to change Its flag, and this meaus that all the flags of such a country u use on our ships have to he remodeled as well. Each of our narr-rards has lts flagoft where this work is carried on, the sewing being done by wouleu. These women work under the superrlsion of experts. Every woman has a sewing-machine, and on this day. - The Atlanta Constitution.

## holes that lightning makes

Did rou ever see the diameter of a light aing flash measured?", asked a geologist of a the case which once inclosed a flash of llghtniug, fitting it exactly, so that you can see just how hig it was. This is called a 'fulgurite or 'lightning hole,' and the material it is nanufactured, though it only took a fraction of a secoud to turn it out.
"When a holt of lightning strikes a hed of and it plunges downward into the sand for distauce less ne greater. transformiug simultaneonsly iuto whass the sillea in the uate-
rial through which it passes. Thus, by its rial through which it passes. Thus, by its
great beat it forms a glass tuhe of preciscly great heat it forms a glass thhe of preciscly
its own size. Xow aud then snch a tuhe, kinn win as 'tugurites,' is fonud and dug up.
Fulgurites bave hrell followed futo the sind Fulgurites bave hreu followed iuto the sand
hy cxalvation for mearly trinty feet. Thes quill to there ime diameter fiom the tion an hure" of the fi:all.
"But fulgurites are not alone prodneed in Falld. They are fombla also in solid rock, hough rey naturally of shgbt deptli, and frequently pxisting merely as a thin. glass in astonishiug ahundince oll the summit of Little Alarat, in Armenia. The rock is soft and so purous that blacks a foot long can be litule thbes tilled with botlle-green glass formed from the fused rock. There is a small pecimen in the nathonal muscum whin bas the apporand the boles made by the worm sub-
 Humholdt on the higli Nevada de Toluca, in Mexien. Masses of the rock were covered with a thlu layer of greeu glass. Its peculinr inlumer lu the sinu led Humboldt to ascend

Ayglat 15,1899
the educational value of travel
THE EDUCATIONAL VALUE OF TRAVEL
up $_{\mathrm{p}}$ to the present time travel bas been in
need to go to Stratford; if Gloto and Milchacl
Angelo and Dante are abstractions Florconce
 a kiowledge of lhidias, Socrates, St. I'aul!
Aud Eqypt. how desolate its temples, hon feellag for the past ou the bamks of the
Lats winter in Ciniro an Eaglish roman who lives iu Itris:ol, or Norwich, or Whehester, and is hot quite ecrtilln of the respecta-
bilits of those living oulside of bil dragoman.
thing in Egypt more than three thousand rears old? madame," replied the guide; "the prramids were huilt six thousand years ago."
". Ah, really; then they must have been huilt
"Ob, no," the guide answered, a little more modern in his dates; "He world was created
many thousands of rears before that?" "oman ceatlin! las at, indeed:" the Englishcheting. Now what wowld Luxar and Karnak
and Thebes mean to her? But necessary as reading is to give travel the ralue it should have, the ability to ob-
serve clesely and remember accurately are -most important elements in intelligent traveling, a slarish devotion to hooks makes The contact mith men of all classes and races and conditions awakens onr symparhies and breats down the narrow notions that grow
up at home. The hroader outlook in the
world dissipates our perjudices, and when we have seen how other people live. looked upon tion of the nnits of the great system under Which we lire.
Not the least ralue of travel is the appreciation of home that it gives. oud, the coming home." There are those who are spoiled by trave, such in Shakespeares time. Rosalind says:
"Farerell, Monsieur Traveler! Look Fou lisp and wear strange suits, disable all the
benefits of your orn country, he out of love with sour nativity, or I will scarce think you
have swam in a gondola!"

Tbe roung woman who gains from travel only a contempt for home and a desire to appear othcr than she is, Whose good Amer English aecent, only has the misfortune to
have traveled from home too roung, or to
have come back rith less sense than she tools bare come back mith less sense than she took away. He who returns to his native land, after wandering on foreigu shores, without
a quickening of his pulses can never know a quickening of his pulses can nerer know
one of the keenest pleasures of trareling, for one of the keenest pleasures of travelng, for
howerer much the seeing strange people and places and the contemplation of the morld's history and art enlarges the intellect, it ought pitied who cannot say that after all-East, West, bame's best!"'Elizabeth F. Risser, in

## CHANGING ONE'S NAME IN ENGLAND

Tbe crown bas the ahsolute right to grant or withhold at its pleasure its license and
autbority for a change of aaule, and if all one hears be correct. almost as many applica: tions are refused as are granted. Needless to sas, the refusals are not the personal re-
fusals of her uajestr, but emanate from the fusals of her uajesty, but emanate from the
home office, through which all petitions pass. Applicants desiriug to assume a name under other circumstances must show what the
cromn can consider to be good and sufficient crown can consider to be good and sufficient
reason why the change should be effected. reason why the change should be effected. descent can be shown from any famalls of personal caprice, is almost invariably refused. personal caprice, is almost invarizuly refused. iny from whamally granted if it can he shown that the female ancestor of that name through whom descent is prored was an heraldic helress in hlood, or where the applicant male of that family. An application put for ward in a case of adoption to assume the name of the guardian is usually granted if the application is made by the gnardian and in
his lifetince, hut the matter is on an entirely different footing if the application is made merels at the caprice of the ward, and after the death of the guardian, when the latter has left hehind him no indlcatiou of his wish that his mard should adopt his name. An
application to assume the particle "De" in front of a evidence can be producea Huquestionable eridence can be produced of bis name.
b
The application of a hushand to assume his of the heirship or otherwise of the wife. If she be an heiress in hood the application is
usually granted. hut it is not iufrequently
refused in rases to the contrary. But the refused in rases to the contrary. But the name hy the wife while her husband is alive,
unless the hushand joins in the petition to assume tbe same name.
the horse of the future

| delonins strent noist's that make moderu bll existence nloto or less a torture. Cobbiberments alo lilid to resist unetill tires the pounding of sterel-shod horses. With ry vohicle motor-driven, and wery wheel bumatic-tirod, all bivembents call be of balt. Not only will the rumbllag of hears clis and the clatter of hoof-beats disap', but there will he no more tracks to cut the strerros. since electric omnibuses. lying as mally ponple and moving as ftly as the elecotricecars of to-day. Will the plate of streve rallwiss. Having ady conquereal the rall, clectricity will a have morle itsolf master of the highwar Well. Kapirl transit for lourg distances ng supplicu by elocotric trains in clean. 1, brilliantly lishted subways, the elerated ds will be no more. Tlie lemoral of the se from the streets will not only make m noiseless, hut will practically solve the blein of strert-cleaning, and greatly im. ve the sanitary conditoms of urban life, neing the illoonnt of straet lefnse to a imum. With rlean. smooth thorongl.fares, ongll which swift, nil-shud. east-liding nicles diat noislessly, it will no longrel he essary to serls the country for rest and et. <br> nce the horselcss age is in fnll sw:ay evers n will bave his own automohlle, and the ycle, which has already, to some extent, plated the horse, will in thrn be shelved, e for the purposes of sport. With the unisal development of sources of supply of cticity the electromobile will take the ce of all other forms of traction, and plugs $l$ be provided in the streets from which tbe omobllist may take lis supply of power a nlckel-in-the-slot derice, while along al highways power stations will be establed so that journeys of any distance may undcrtaken. Eren on the farm autowains 1 do the hedvy-burden carrsing. The se mas still be harnessed to the plow or other farm implement, may still fnruish rt on the race-course for those people who jos this sport, and for riding exercise for fen, but no longer will he he the chief arer of man's burdens. Who will say he |
| :---: |

## GROWTH OF SUNDAY.SChools

The conrention at Atlanta of the ninth
international and fourteenth national Sundas: school courention invites attention to the which as a Christianizer and educatlonal force has accomplished a worls of inestimable
ralue. It will be iuterestiug to nearly everybody to note some facts showing the progress that has heen made in this department of religious instructiou.
The euduring foundations of the Sundar. 1780 , and fonr years later the first school while schools had been establlsherl manparts of England. In niue Fears the number of Sunday-school scholars in the British isles
was 300,000 . The first school in the United States was established in New Jersey in 1786.
The statistics show that in 1851 there were The statistics show that in 1851 there mere
about $2,400,000$ pupils in Sunday-schools in England, 300,000 in Scotland, 275,000 in Ire-
land, and $3,000,000$ in America. Br 1 Sso the land, and $3,000,000$ in America. By 1 Ss0 the
United States had 6.800 .000 Sunday-school United States had 6.800 .000 Sunday-school
scholars and 932,000 teachers. At that time the number of Sunday-school scholars in the world was $12.000,000$. The statistics for 1890 show 704,000 teachers and $6,695,000$ scholars
in the United Klngdom, and $1,100,000$ teachers. in the United Kingdom, and $1,100,000$ teachers
and $8,355,000$ pupils in the Cnited States. and $8,345,000$ pupils in the Cnited States.
Canada had 57,000 teachers and 490,000 pupils. The totals for the woold were $1,996,000$ teachers and $17,720.000$ pupils. It is estimated teachers in the world is not less than $2.500,000$ and the number of scholars $22,000,000$.
These figures are certainly impressive. Thes show what a rast army is actively employed how much greater number in the civilized progress shown holds out a most encouraging promlse for the future. A world's congress of Sunday-schools is to he held in London next rear, Which will prohably gire a fresh
impetus to this hranch of religious work.Omaha Bee.

A LOW WAGON AT A LOW PRICE In order to introduce their Low Metal Wheels
with Wide Tires, the Empire Manufacturing Co.,
Quiney, In.. have placed upon the narket a Farmielts. Handy Wagon, that is only market a Farmi-
fitted with 24 and 30 inch wheels with 4 -inch tire.


This wagon is made of bust material througl-


-and hundreds of other jobs with the
strength of 15 men. Most Convenient and strength of 15 men. Most Convenient and
useful power ever invented. Costs only TW0 useful power ever invented. Costs only TW0
cents per hour to run. Especially adapted cents per hour to run. Especiall
to farm work.

## Fairbanks

| Morse \& Company | Chicago | St. Paul |
| :---: | :---: | :---: |
|  | Cleveland | Minneapolis |
|  | Cincinnati | Omaha |
|  | Louisville | Denver |
|  | Indianapolis | San Francisco |
|  | St. Louis | Los Angeles |
|  | Kansas City | Portland, Ore. |

SALESHEN WANTED

 and



EXTRA CHOICE
Seed Wheat For Sale
 to produce more on an average per acre, welgh1 more
per measurel bus, and give Letter resuls for flour
tran auy other varieties produced in the 8 tate of Ohlo. TERMS CASH WITH ORDER
1 to 4 bus. lots, $\$ 1.20$ per bus.
5 to 10 bus. lots. $\$ 1.10$ per bus.
10 to 20 bus. lots, $\$ 1.00$ per bus. Tippecanoe city, $\begin{gathered}\text { Ohio. }\end{gathered}$
Bags furnished at $1 \overline{\mathrm{~s}}$ cents each.
Any material change in the market prices subject to
Chanye.
Reference-Tipp Natioual Bank, Troy National Bank, and Comunercial dgeucies
Shall be pleasel to answer ail nquiries and mall
smail samples or the wheat. Address the detrick milling co.


We carry a complete stock of all kinds our goods at Sherifs' and Receivers' Sales. Write for
FREE ILLUSTRATED CATALOGUE No. 34 on
Hard Wire. Rope. Dry gonds. clothing, etc. etc.
OUR PRIGES are OAE-HARF of OTHERS
CIM Chicago House Wrecking Co. W. $\begin{gathered}\text {. } 5 \text { th } \& \text { Iron St } \\ \text { CHICAGO. }\end{gathered}$

## "Which College

limited amount of money?" Young men and women are asking this question. By writing a postal to G.K. Hamilton, Lebanon, Ohio, you will receive a handand full particulars showing buildings, life at the National Normal University Founded $1855 . \quad 50,000$ graduates filling good positions. Students from 36 states. 20 departments, Common school, Busi-
ness, Teachers, Classical, Music, Medicine, Law and others. A healthful
location, 30 miles north of Cincinnati.



## 



HES we are told positively by the Cliief chemist of the United States Department of Agricul-
ture that fully ninety per cent ture that fully ninety per cent
of the articles of food and drink manufactured in this country are trauds, the wonder is that we as housewires pay so little attention to the fact. and purchase so in-
discriminately and carelessly of the food products that we find upon the shelves and counter:
The demands for a cheaper rate have brought us a correspondingly cheaper grade ruining the digestion of our families and the ruining the digestion of our families and the have been some of the disclosures of
adulteration of food made by the senatorial adulteration of food made by the senatorial
pure-food investigating committee-facts pure-food investigating committee-facts
that none can dispute, and that should be brought home to every hearthstone, studied and heeded. Great is the ignorance of housewives as a class, I fear, concerning
those things of so great importance-the things we eat. Fatal mistakes are made every day. By slow degrees the individual constitution is undermined aud broken down through daily taking into the system, in the foods purchased and prepared, ture of foods and food materials. It is high time that every woman who is the keeper of a home should open her eres to the dangers about her, and guard well the manner of lood products that find their way into her
larder and kitchen. If housewives rould be made to realize these dangers to the liealth, and consequently the happiness, of their families, it is safe to predict that more
would be accomplished toward lessening the would be accomplished toward lessening the by ans other method.
In no other line, I believe, do women make so great mistakes in these departments
their households as in the purchasing flour and baking-powders. Unscrupulous manufacturers of bakiug-nowder, realizing the weakness of women, to lure them on to offered "premiums" that of themselves should have been warning sufficient to one who stops to think that there must be some-
thing wrong somewhere. No one can afford thing wrong somewhere. No one can afford
to sell to rou or I fifty cents' worth of good baking-porder and then "throw in" an article worth the same or a greater amount
of moner. No matter that "thes" tell you this is their way of adrertising their goods.
Beware! Death lurks in the compound, though it may he ever so slow in its work. Drspeptics without end are suffering to-day from the direct effects of food partaken in
which these same cheap and death-dealing compounds found entrance, through a mistaken sense of economy of the housewife who purchased them
Baking-powder is found in every home to-day, or highited means buy other than the best and purest of hrands obtainahle the best and purest of hrands obtainahle.
Thus they escape the after-effects of poison-
ery large per cent of it contains alum. High medical authority tells us that alum is so powerful an astringent as to "produce astriction of the tissues and fibers, contrac-
tion of the capillaries and diminution of secretion, thus producing constipation
dyspepsia that were once acute and simply dreadful, but that have been materiall aided and lessened through proper treatment and careful diet, that are directly traceable to the consumption of adulterated, harmful baking-powder, purchased by a number of housekeepers who did not in the least understand the situation. Time and experience and study of the question brought to light some very valuable though dearly bought information. And those wives and house wives can never sar enough to their ac quaintances upon the subject of adulterated quaintances upon the subject of adulterate ders. Another hrand or brands of baking porrder are so thoroughly impregnated with powder are so thoroughy impregnated with component part of food stufis, as to have brought it very seriously before the health authorities. Decided measures have bee taken to reach with effective means the manufacturing and selling of these danger ous, health-destroying compounds. The enactment of pure-food laws have done and
are doing much to lessen the wholesale dispensing or distributing of adulterated food of all kinds, aud principally among them the many makes of cheap, inferior and positively dangerWhen in the United States we liave secured the passage of such a law as has passed into effect and long been resorted to in France we, shall have a different condition of affairs as regards the wholesale destruction of good health because of fraudulent and deleterious foods that are taken, and in most instances unknowingly, into the human stomacb. The law of France referred to provides that any one who has purchased an article of food purchased an article of food
from any salesman may take it to the municipal laboratory for the purpose of haring it analyzed. If found to be adulterated the law takes the mat ter in hand and deals with the salesman who has kept and sold adulterated foods. And for a whole year said salesman or tradesman must endure to have and to see in his window a conspicuous display card containing the words, "Convicted of adulteration urally his trade is not brisk after thus conricted, and he will never care to repeat the offense.
If such was the larr of the United States, and said law was put into quick execution, I ronder if the window of a single tradesinan in the whole country would escape the placard! I doubt it. The list of proven adulterated foods has grown so long that it is a matter of much conjecture whether under the sun there is anything that can be purchased for food that may be relied upon as strictly pure. The farmer is sure of such products as come directly: from his farm-his meat, regetables, milk, cream and butter-for they pass through hone folk lefore consumed. But he is never sure of his flour and his bread, for before his wheat has been conhas lad a hand the miller has- had a hand in the prodbeen made to count in his favor. But of millers there is ous powders. But the familics that must here and there an honest one, no doubt. I "count the cost" have accepted the cheaper have net one who could not be bribed, brands, fecling that they were securing and a prewium for their money; when in reality they have paid for the premium in ing into the stomach an article that in time will react in dangerous form. We are told rier annually consumed in North America
coaxed or driven to adulterate the flour with
alum, of which the proprictor of the mill had barrels on land for that purpose when said miller took charge.
And this is another of the crying needs for reform-the adultcration of flour. The farmer is robbed ly a substitute of cornstrength and health by an overconsumption
of corn-starch, where it is the protein, or life-giving elements of t
body stands in need of.
In connection with the warning against the use of new and unknown brands of "premiulu" baking-powder (there are a few brands with which no premium is offered, and that are of recognized value and purity) making of a baling-powder that is always good, and that is composed of harmless ingredients; at least I have bad the word of several druggists to that effect, and we have or some years used it, finding the cooking Eight ounces of bicarbonate of and good: ounces of tartaric acid (or best orean of tartar) and one pint of flour. In other words, purchase from your grocer, at seven cents a pound, a common package of bakingsoda, and to this pound of soda add fourteen ounces of the acid or cream of tartar and two pints of flour. Mix thoroughly by stir-

ring with the hand or a large spoon, then repeatedly sift, and put away in cans of tin or glass, away from the air. It costs less than good powders in pound or half-pound cans, is equally as good or better, and you always have a knowledge before you of what you are using. Ella Hozghtor.

## WOOD-CARVING

Considerable work may be done without using the mallet, but it becomes necessary when you begin relief-carring. In this the wood is cut away around the design. The
entire process has three divisions. The patentire process has three divisions. The pat tern must he stabbed out, the background must be lowered, and finally the design must
be modeled. First of all place your pattern on the wood by preparing it on paper and transferring it as described in a former arti cle. Do not select anything more elaborate than a simple band for jour initial effort. When your pattern is on the wood take the tool which, holding it rertically, fits best on the outline of your pattern. Do not place the tool exactly on the line, but a little outsidc. Holding the tool thus with your left hand, hit the end of the tool-liandle with your mallet, giving a stroke of sufficient less than one cighth. of an inch. Repeat this process until you have gone all around youl design. Next you will

your design, lising for this purpose your hollow gouge and chisel. Both
stabbing out aud lowering should he done thoroughly, and the first process should be completed before the second is begun, and the second stage finished before the modeling is commenced. If you are working on an ornamental hand you must be careful not to nick the edges. You may lower the back ground gradually from the edge, or sink it
with a right angle, but whichever you decide to do let it be done neatly.

Suppose you are carring a band of rosettes, as illustrated. I suppose after you have fin-
ished lowering your background you have before you a row of circular elerations which you wish to model until each resembles tab out the little boss in do this first each: theu lower the wood around it Witl your parting-tool cut the grooves dividing the six petals. Now rou will have to graduate隹 ccording to your own taste and talent.
In our best schools rery small children are aught modeling in clay. This is a valuable reparation for wood-carving, and if a carver hakes his design in clay it will be an excel In a pliter for hial an be tried and corrections made, but the an bed ant be altered ony wood rouble and loss of time. If you break of part of your pattern, glue it on and elamp it tight till the glue dries. Then model it as if there had been no breakage.
When rour modeling is done the background is generally stamped with a suitable tool. Some carvers use a nail which has been filed into little tooth-like divisions. Some stamps resemble a star. The filed nail is as good as any
It was Mr. Pitman who insisted on the idea that American wood-carvers should make designs from their native flora, arrang ing our national foliage and forwers in orig. inal patterns. It is worth while to invent paper and erer Compose paper and nerer apply it to wood. Compose fergetten them, then criticize them har forgotten the , then cricize them they were the work of some one else
the some persons fin modeling by rubbing the work whers gard this as an inartistic method.
When the work is*done apply raw linseed oil, putting it on with a small brush. Afte a ferr days repeat the oiling and the wood will assume a dark, rich color. K. K.

## SOME GOOD RECEIPTS

Orange Pie.-One heaping coffee-cupful of white sugar, one half cupful of butter; beat all to a cream, then add a heaping teaspoonfur of flour, the well-beaten yolks of three eggs, the juice of two oranges, and lastly add the whites of three eggs beaten to a stiff froth. When these ingredients are well mixed put the mixture into a dish lined with an under crust, and bake in a moderately heated oren.
Rice Gem-cakes.-Take one quart of soft boiled rice; to this add a teacupful of flour, a tablespoonful of butter (good measure), a little salt, two well-beaten eggs, one ure), a little salt, two well-beaten eggs, one
half teaspoonful of soda, one teaspoonful of cream of tartar, or one and one half teaspoonfuls of baking-powder; add enough milk spoonfuls of baking-powder; add enough milk
to make a rather thick batter. Bake on a to make a rather thick batter. Bake on
griddle, or pour in well-greased gem-pans. Apple Meringues.-Pare, slice, stew and sweeten ripe, juicy apples; mash smooth, and season with nutmeg or lemon-peel; line a deep pie-plate with an under crust, fill it nearly to the top with the prepared apples, and bake until the crust is done. Beat the whites of three fresh eggs to a stiff dry froth, then beat in three tablespoonfuls of sugar a little at a time, spread orer the pie, and return to a rather cool oven for ten or fifteen minutes. Pie may be eaten either warm or cold. Dried peaches or fruit of any lind may be used in place of apples.
Dried-apple Custard.-Put a quart of oiled custard in a bowl, and have it rery cold. Strain a pint of stewed dried apples, flaror with nutmer, and sweeten. Put this on top of the custard. Beat the whites of two egry, flavor with lemon, sweeten, and pile on top of the cuscard.
Hemriettes for Tea.-Take three eggs, eaten separately, three fourths of a cupful f cream or milk, a scant teaspoonful of bak-ing-powder, salt, a pinch of cinnamon (if preferred a tablespoonful of brandy may be added), enough flour to make them just stiff

nough to roll out easily: Roll thin as wafer, cut into about two-inch squares or prinlle pulveriza in boiling lare and Swret-rotato Die. To pie pound of baked potatoes, put through a fine sieve, add one half pound of butter, three fourths of a pound of sugar, one pint of milk and six Bake with one crust, and it is delicious Bake with one crust, and it is delicious.
Mrs. J. R. Mackintosh.

## a slumber-song of the sea

Hush, little pet:

## Thine heary ere For mother snies

## For mother spies In baby's eyes

Another likeness that she knows.
Hold fast my hand with tight'ning grip, For just that curye of brow aud lip
The dinupled nestling of thy chin,
Is hollow of $m y$

## Now suddle close

And lend thy cooling undertone The wide seas roams, that thou and I Mayst snugly housed and sheltered lie.
Dost hear it boom along the beachThs friend and mine-just out of reach? We hear its jeweled fingers playFriend we so love-friend we so dread,
Who fings us life, but holds our dead
As hostage-till the Judgment Dar.
Orer the bright stars of thiue eve No soft-winged litte dreau-bird fies. But the stormy petrel's angry scream Is the note that colors all thy dream: And the downward sweep of his flashing ere in inland-born art thou, my sweet:
Xo fettered soul in crowded street, Of the wild winds raitling at the door: A favored son of the boisterous sea, Whose sweetest fullaby is for thee!

So, safely slumber in ms arms.
Drowsed hy the ocean's wild alarms,
Till fathei comes, some happry das.
A-sailing, sailing o'er the Bay-
A-sailing, salling o'er the Bas,
Some happs day,
Some-happy-day
-Thorn Sessions
A DOZEN WAYS TO SERVE BANANAS

BNAXAS are universally used throughout America, and yet thousands of people never heard of using them following directions will be found pleasing, new and delicious.
nely and delicious.
BAKED.-Place a number of sound, not oyerripe, bananas on the grate of a moderate
âtren, züd hake twenty minutes. If desirable, split down the skiu on oue side and sprinkle powdered sugar over, serring at once. People who find when
rärv can eat them in this way.
Fried.-Peel six bananas, and slice lengthways. Have some hutter hot iu a skillet, and lay in the slices; fry brown, and sprinkle cinnamon
are delicious.
For Sacce.-Cut hananas in thin circles into a deep dish one half hour hefore serving. Use one half cupful of sugar to six hananas, add one half teaspoonful of lemon or ranilla extract and one cupful of sweet
cream; stir well into the bananas, and serve cream
cold.
Baxana and Pineapple Float.-Slice three hananas into one ha'f canful of shredded or one half canful of finely shaved pineapple. Place in a deep glass dish and corer with the cupful of sugar hrought to a boil. Stir one heaping tablespoonful of cornstarch into one half cupful of water and the yolks of two eggs; add to the hoiling mills: When a little cool, pour over the mixture in the dish, pile the whipped whites on
top, and hrown slightly in a quick oven. A splendid dessert.
Bridal Creani.-One quart of sweet milk, one grated cocoanut, two cupfuls of sugar;
bring to a hoil, and thiclen with two tahlespoonfuls of corn-starch dissolved in milk. Have ready the whites of two eggs heaten stiff, and slowly beat them into the hot cream. Pour orer six or eight sliced bananas; when cool, ice the top and sprinkle nanas; when cool, ice the top and sprinkle should he used to make a gold calke flavored with orañge, to serve with cream; keep the ream on ice until ready to serve.
Traispareat Flumigery.-Soak one half hoxful of gelatin in a pint of water for three hours, add the juice of two oranges and one more cupful of water, and hring to
a hoil with two cupfuls of sugar. Slice two oranges and six hananas in a square dish, and pour the gelatin over them, stirring well. Let it get stiff on ice, and when ready to
serre cut off in blocks or hack into chunks, serre cut off in blocks or hack into chunks,
pile on a glass platter and pile whipper cream around it. A beautiful party dish.
Cake.-Two cupfuls of sugar, one half cupful of hutter, the yolks of three eggs and one cupful of milk. Cream the sugar and
butter, add the eggs and milk, one teaspoonful of lemon extract, two teaspoonfuls of
haking-powder sifted into three cupfuls of
flour, and heat well. flour, and heat well. Bake in round pans.
Beat the whites of the eggs rery stiff, and Beat the whites of the eggs very stiff, and add one cupful of powdered sugar. Spread each layer with the icing hefore placing the layers of sliced hananas on. It is much bet ter than when bananas alone are used. This cake should be made the day it is to be eaten. Just before serving ice the top, and place the bananas upon it. They blackel if exposed to the air any length of time
BaTAXA Pie.-Line a pie-tin with rich puff-paste, and fill level with sliced hananas. Mix one cupful of sugar with the yolks of two eggs and one half cupful of milk or cream. Pour orer, and hake in a quick oren Pile the whipped whites upon it, and brown Pile the
the top.
Shortcake.-Two cupfuls of flour sifted with one heaping spoonful of haling-powder, With one heaping spoontul of haking-powder,
one half cupful of butter, and one egg with one half cupful of butter, and one egg with
one half cupful of sugar mixed into it. Stir one half cupful of sugar mixed into it. Stir
in milk so it will he just stiff enough to roll in milk so it will he just stiff enough to roll
out, and hake in a round tin. Split and hutout, and hake in a round tin. Split and hut-
ter, fill with sliced hananas; serve hot, with ter, fill with sliced hamanas;
plents of sweetened cream. plenty of sweetened cream.
Ctstard.-Four eggs well heaten, with two cupfuls of sugar, two cupfuls of swee milk, one cupful of creann, oue tablespoonful of hutter, and fire bananas sliced in circles Bake one half hour, setting the dish in panful of water
Baxata Puff.-Make a dozen ordinary puffis as for cream puffs. When cool fill with the following: Four hananas mashed fine with one cupful of sugar, two tahlespoonful. with one cupful of sugar, two tah:espoonfuls
of whipped cream and a spoonful of lemonof whi
juice.
juice.
Tarts.-Bake tart-shells, and when ready
TARTS.- Bake tart-shells, and when ready
to serve fill with the ahove mixture and ice the top. Very good.

Tiola Vax Order.

POSTAGE-STAMPS A MEANS OF EDUCATION It was in the year 1891 that many bors and girls read in the newspapers that can celed postage-stamps could be sold it the rate of $\$ 100$ a nillion. The papers further stated that the stamps must he done up in neatly assorted packages, each kind and each issue by itself. Tery few young people re carefully prepare them for sale.
Auong the many who undertook the task was Wayne Dewitt. He was nearly eleveu years old, and was a boy noted for his stickthe letters in his own house. His mother the letters in his own house. His mother the Civil-War time, and Trayne almost immediately hecame interested in the study of the rarious kinds of stamps.
He also learned that at first only prorisioual stamps were issued from rarious
cities, as Baltimore, Providence, St. Louis and cities, as Baltimore, Providence, St. Louis and
Jerr York, at that time at the expense of the postmaster of the office from which the stamps were issued. These began with 1842 , and it was not until 1817 that the general government issued stamps to he used iu all parts of the country
The provisional issues made by the local of the stamps are exceedingly rare. Only two or three specimens are liown to oxist of the Brattlehoro, Termont, five-cent issue of 1816. Most stamp-collectors have to be satisfied with a photograph of this rare Jot rery long ago an English gentleman paid 81,500 for one of the genuine Brattlehoro stamps.
Wayne discorered that Washingtou's like ness was always on the stamp incurrent use "current" two-cent stamp. When the ordinary letter stamp was three cents that one bore Wash ington's likeness; now the three-cent stamp has Jackson's face on it. The one-cent stamp always hears Franklin's portrait, douhtless because Franklin wrote and said so much ahout saving the littles-taking care of the pennies and letting the dollars take care Columbian issue has heen the only exception to this rule. Besides hearing Franklin's portrait the one-cent stamp is always blue, Tith the possihle exception of the one issue (1869).

The set of stanps now in use form a col
lection of the portraits, in miniature America's great soldiers, statesmen and presidents: One-cent, Franklin; two-cent Trashington; three-cent, Jackson; four-cent, Lincoln; five-cent, Grant; six-cent, Garfield; eight-cent, Sherman; ten-cent, Wehster; fifteen-cent, Clay;
ninety-cent, Perry
Wayne had many friends among the busi-
these gentlemen sared the stamps ' in their offices, and every Saturday allowed Wayne to go after them. Occasionally a friend
would send a box of stamps to him from soine distant town, and he had an aunt who liad saved her letters in hoxes in her attic for a great number of years, intending some fay to file them. She had kept them hecause many, contained valuable information fron friends traveling in foreign lands. She interested herself for Wrayne's salke, and the stanps.
To prepare them was an immense amount of work, and Wayne was a boy that never had leisure out of school, for there were marry ways by which he had to help carry on There came into his possession many
uable stamps, and he hegan to prepare an album for himself; then he gathered up quite a number and sent them by mail to a dealer in New York. For these he receired
two dollars. At another time he sent sone two dollars. At another time he sent sone
choice ones to a firm in Canada and received choice ones to a firm in Canada and receiveत another two dollars. This was just aside, as he still took care of the mass of stamps he had. But as he grew older and busier there came a lapse in the work, and when he again planned to resume it he made up his not make any further attempt to obtain the million. He found that should he ever get a million he could not pack them in a harrel, they wrould take up so much space. The 175,000 that he had filled a large telescope
satchel and a market-hasket hesides. By having gathered then during and just after the TVorld's Fair he secured a large number of Colunbian stamps, and he was finally able to sell them, though not at a very good rate.
Tayne knows now that a boy can earn much more money in other wars than hy gathering postage stanmps, but as a means hardly learn in any other way at his age. "Philately". is a loug word, but that study has led Wayne to history, geography, government and to be interested in the uationalities of the world. The lnowledge he has gained from studying the stamps as thoroughly as he has far outhalances any money he obtained. Such knowledge can neither be bought nor sold.

Mary Joslyx Smith.

## possibilities of canned tomatoes

Tomatoes are a most wholesome regetable heir acid acting in a salutary manner on stomach aud kidneys, and they should be eaten two or three times a week. During
the winter and spring fresh tomatoes are so the winter and spring fresh tomatoes are so
high-priced that ferw can afford them, hut canned ones, if properly cooked, are a rery palatahle suhstitute. If hen a can is opened the contents should immediately he emptied iuto a dish, for if allowed to stand in the tin after the air reaches them a harmful acid may three days, so if but a part of a can is needed at one time the remainder may be used later.
Tomato Socp.-Chop a large onion fine, and cook in a pint of hoiling water. Drain the liquor from a canful of tomatoes, press tomatoes through a colander, then add them and the liquor to the onions, together with one quart of soup stock, and salt and pepper for seasoning. Cook fifteen minutes, and serve with crackers or small squares of
toasted hread. toasted hread.
Tomato Sour, Withott Stock.-Press add a tahlespoonful of hutter, salt and pepper to taste, a half pint of boiling water, and cook fifteen minutes; add half a salt-spoonful of soda, and when it has done foaming remove the scum and add a quart of very rich sweet milk. When it hoils add a tahlespoonful of flour smoothed in a little cold milk, stirring constantly to prevent lumps. Boil two minutes, remore from the fire, and CRE
Creaned Tomatoes.-Chop fine a canful of tomatoes, season with salt, pepper, a ta-
blespoonful of sugar and a tablespoonful of hutter. Put to heat in a saucepan, and when it has cooked fire minutes add a cupful of sweet cream in which has been
smoothed a scant tablespoonful of flour. Cook two minutes longer, stirring constant $1 y$, and serve at once.
Tomato Toast.-This is a most appetizing dish. Prepare as for creamed tomatoes, and serve by pouring over slices of hot toasted hread. Serve immediately,
Escalloped Tomatoes.-Drain a canful
baking-dish, season with salt, pepper and
hutter, add a layer of fine stale breadcrumhs and hits of hutter, another layer of
well-seasoned toonatoes, and so on until all well-seasoned tomatoes, and so on until all
have heen used. To the liquor add a half pint of boiling water or sufficient to moisten the crumiss used, pour it over all, and bake for twents minutes.

Tomato Hasif.-To half a canful of toma tocs add a large cupful of finely minced meat of any kind; scason with salt, pepper and minutes, add a half cupful of cream, and serve hot.
Scrambled EgGs and Tomatoes.-Chop fine a half canful of tomatoes, seasou with salt, pepper and butter, and cook without water for ten minutes. Break into them six fresh eggs and stir rapidly for two minutes Tomato Firitt
Tomato Firitters. - Chop fine a half can ful of tomatoes; cook for five minutes, add
one fourth of a teaspooniul of soda, salt one fourth of a teaspooniul of soda, salt
and a half cupful of sweet milk after haviug remored from the fire. Then heat in one pint of flour. Drop by spoonfuls into hot fat,
fry until crisp and hrown, and serve hot fry until crisp and hrown, and serve hot.
Tomato Relish.-Select a brand of to Tomato Relisir.- Select a brand of to
matoes known to he particularly fine. Care fully drain them, arrange in a glass dish an nearly cover with finely chopped onion. Id a dash of salt and pepper, a spoonful of sugar and a half cupful of sharp vinegar. Let stand a few minutes hefore serving. Chilli Satce, or Tomato Catchep.by following any reliahle receipt.

## CANNED HENS

I was just a slip of a girl then, and you can hardly imagine my consternation when I saw the minister driving into our door yard on that hot July moruing. Mother was
away for a week, just a plain family dinner away for a week, just a plain family dinner was conifortably baking in the oren, and we were four miles from market. I put on iny sunbonnet and hurried out to the fields after father, and such a chase as we had in that blazing July sun after a fowl. The broilers were none of them to be caught, and it was nearly noon hefore we landed a fat hen in the kettle. I kept up a good fire and the pot hoiled furiously, hut the hen happened to he an old one, and the longer it boiled to he an old one, and the longer it boiled
the more it seemed to age, until at two the more it seemed to age, until at two
o'clock it was agony to discover that my fowl seemed harder and tougher than when fowl seemed harder and tougher than when I began cooking it. But dinner had to he
served.
My father and the minister were hoth hunMy father and the minister were hoth hum-
gry enough to have eaten hrickhats hy that tiue, and I never shall forget the look of patient resignation with which they strug gled with that fowl. If father had not kept praising up my housekeeping, and if the minister had not told all manner of fungy and ridiculous stories, I certainly should hare broken down and cried. Fortunately, there were some good things for dunately, there were some good things for hungry.

From that day's experience I learned a aluable lessou, and now that I hare my own house to order, prepare heforehand for such an emergency. In August, when the hens hare stopped laying and cockerels are cheap and plentiful, I put up from twelve
to fourteen cans. It is no calamity if I do to fourteen cans. It is no calamity if $I$ do
live miles from market and a wagon-load of live miles from market and a wagon-load of company drive in just at dinner-time; I can skip down cellar for a canned hen and hare ments' time pot-pie on the war iu a ferr mo friends with the cheer and courage of housekeeper who is prepared for anything.

TWO WAYS OF MAKING CURRANT JELLY
I want to tell the houselold sisters my way of making currant jelly, as it saves much work from the way most people makeit. Pick the currants when first ripe, wash, hut do not stem them, put a few into a stone jar or stem them, put a few into a stone jar or other ressel, and mash with a potato-masher. home-made press. It is a square hox without a hottom, strongly made, and bound with strap-iron. Set on a grooved hoard. Put straw in the hottom, then fill up, and put a block on top that just fits the inside of the
box, and use a long pole as a lever. I can box, and use a long pole as a lever. I can press twenty gallons of currants in a few
uinutes. Strain the juice and put to cook ahout two inches deep in the kettle and over a very hot fire. Heat one cupful of sugar for two cupfuls of juice, and put in
house of too much trouble u the House of Too Much Trouhle Lived a lonels little boy He was eager for a playuate
He was hungry for a tor. He was hangry for a tor.
But trwas al wa, stoo much bother Too unuch dirt and too wuch noise,
For the House of Too Much Trouble For the House of Too Much Trou
Wasn't meant for little hoss.

Aud sometimes the little fello
Left a book upon the floor, Left a book upon the floor, Or forgot and laughed too loudly,
Or he failed to close the door. In the House of Too Much Trouble Tbings must be precise and trim In a House of Too Nuch Trouble
There was little room for him.

He must uever scatter playthings He must never romp and plas Evers roonl unust be in
And kept quiet all day.
He had never had compauions, He had never had compauions
He had never owned a petHe had never owned a pet-
In the House of Too Much Trouble It is trim and quiet ret.

Evers room is set in order-
Everr hook is in its place Aud the lonels little fellow Wears a smile upou his face. Iu the House of Too Much Trouble He is silent and at restIn the House of Too Much Trouble With a lily on his hreast
-Alhelt Bigelory Paine, iu - Alhelt Muusey's

## DARNING AND MENDING

ATruoch it is no disgrace to wear a patched or darned garment, yet it is a disgrace to any woman to
do such ahominable mending and darning as is often done, and no won-
der childrea rehel and object to wearing a garment clunsily darned or patched with cloth of another color from the garment. If a garment needing mending has faded, then fade the piece with which it is to he mended before using it. If a garment worth mending, it is worth doing ioll. set the patch on the outside. Carefully cut out by a thread the worn part, then cut the patch at least an ineh larger than the opening it is to fill. Be sure that the patch is fitted in the saine way of the cloth, and if the cloth is not plain be careful to have any stripe or pattern exactly match. Lay the patch on the wrong side of the garment and haste it without turning in the edges or
letting the stitches show on the right side; letting the stitches show on the right side;
then turn the garment over, clip the corners then turn the garment over, clip the corners

slightly, as shown in the illustration, so that |  |
| :---: |
|  |
|  |
|  |
|  |
|  |
|  |

the edges will turn under smoothly, and hem the edges will turn under smoothy, and hem cotton thread and fine stitches set rery close together. After the edges are neatly hemmed down, hay a damp cotton cloth over
the wrong side, aud press it down with a medium loot iron; then remove the damp cloth and press next the wrong side of the garment until it is nearly dry. If the cloth
is pressed perfectly dry it will not look so is pressed perfectly dry it will not look so
well.
A place that is merely wom thin, but no hole made, is best neended by darining with ravelings of the goods if possible. Thin
, llaces in tablecloths and napkins may often be darned in this way and their time of service very mucli lengthened. Table-cloths gen-
crally. wear thin first in the folds, as they are always folded in the samme place. When they hegin to show a little thin on the
center folds, an inch or two inay be cut off center folds, an inch or two may be cut off
one end and one side, the edges henmed, one end and one side, the edgees henmed,
and in this way the folds will be clanged and the cloth wear longer the en berne, where the edges can be brought together. Use no
piece under a darn, unless the material to be darned is very thin. All expert darne will make a rent in woolen quods practically
invisible by weaving the torn edges togetloinvisible by wearing the torn edges togeth-
er, matching them as elosely as possible.

Begin'a little way back from the edge of the tering the Misses D. and E., and so on and tear and run the needle as far on the other side. If the cloth is thick the needle may be run without any stitches appearing on the right side. Draw the edges closely together, but do not let theus overlap. If there is any nap on the cloth brush it back wheu darning, and then brush it down when through, and it will help to conceal the place. After the darn is finished, press the place on the wrou
patch is pressed.
patch is pressed.
Little girls ought to be taught to mend and daru neatly as a part of their education. In some city schools this is taught as a part of the sewing-lessons. It is true that our country schools are already crowded with a multiplicity of studies, yet one hour a week could well be spent by our girls in learning to sew, to mend and darn neatly: As a rule, mothers in the country have less time thau city mothers to teach little hands the use of the needle. The machine does such quick work that hurried mothers are tempted to make a new garment instead of mending one only a little worn, and unless something is done to remedy the defect neat hand-sewing is in danger of hecoming a lost art.

If some woman with leisure would gather the little girls of the neighborhood togethe once a week and give them lessons in hand sewing she would he doing true missionary work that would be appreciated hy not only the girls themselves, but by the mothers as well.

Mada McL.

## A SOURCE OF CONFIDENCE

Have rou ever happened to be in a busimaking application for some position? If so, you must have noticed the different ways in which the different hoys advanced to the manager's desk. Some went boldly forward; some hesitated, shrinking and timid, and had to he called a second time; other stepped up in a manly and confident man-
ner, and still others, who were manly enough, still seemed awkwardly eonscious as well.
We all of us have met these four classes of boys-you more particularly, since you
have played with them on your "ball team," or met them as members of your "club," or have been schoolmates together, or other wise have heen elosely related.
There is the boy who is so conceited and hold that nothing would embarrass him or low! who is so nervous! shrinking and self conscious that he can only think painfully of hinself. Then there is the hoy who is manly and confident, and also the boy who is manly, hut so awkwardly conscious.

- Now wherein lies the difference hetween these last two hoys. They both seem to have the qualities which make them manly and confident-honesty, intelligence, stead iness, perseverance, liudliness, Christian character-and yet with these qualities
one is still so "awkwardly conscous" that it one is still so "awkwardly conscous" that it
counts against him very frequently; whie the other, being self-confident, experiences no difficulty of this kind.
Awkwardly couscious! Of what? Of the that his neckwear is not properly adjusted, and that his clothes in general are not just as they should be.

Now I have aroused your sympathy. You are saying to yourself, "Of course we know the fellow. He doesn't dress as well as the afford to."

Ah, but your sympathy is wasted; you are not thinking of the right bor; indeed, the boy ou describe is my boy who is manly and onfident, without any arkward conscious ness about his clothes being less expensive
than his friends. than his friends.
And here comes the rubl! It is often the boy who can affind to be immaculate who is not so, but quite the reverse: and it is this boy to whom I have referred.
When he suddenly finds himself among penple whose hoots are neatly blacked and brushed; whose hands have no appearance of "dead skin" (the school-boy's term for common ordinary dirt); whose nails have very recently seen the nail-file; whose neck, linen is virgin white; whose cravats are not all askew, and whose clothes in general are well brushed and well pressed-when this "rest of the fellows" hand among prom the re carefnl of their ucrsonal appearance, and re carefnl of their ucrsonal appearance, and at such times that he fecls somehow all wrong and wishes he had remembered to be particular before starting out to try for that coveted insition in Mr. B.'s office, or before

## so forth.

I ain not going to adrocate that "clothes make the man"-far from it; but I am conoue's of the fact that the appearance of the general neatness of a persou, have a great deal to do with his confidence in himself, with inspiring confidence in others, and consequently with his success in any enterprise sequenty mar undertake.
Try it for yourself some time; "dress up," so to speak, but instead of well-appearing boots put on an old, shabby, dirty, torn pair, with the laces all knotted and broken and hanging, aud then try to walk down the street in your usual upright, unconscious fashion. You will not be able to do it; you will try to lose your feet up your trouserslegs or anywhere at all every tune you meet any one, and you will feel miserable in general and entirely without your usual confidence.
It is the neat, the scrupulously neat hoy, though poor his clothes may he, who will pass muster where the wealthy youth w careless, untidy appearance will fail
It takes so little time, after all, to be neat; to gire your boots a good shine occautall or pay the hootblack to do so; to o tie yeur crava (without being made to), clothes brisk brushing and to give your clothe a lisk it your room. It takes so little time to do these things, and yet they go so far toward giving one self-respect, witho
amount to anything.

## amount to anything.

Make the most of yourself, the best of yourself-that is what God meant each person to do, even to the smallest detail-and lack of personal neatness can hardly be classed as a trivial matter, either in business or in the home life.

Emma Louise Hauck Rowe.

## FOR YOUR TOURIST FRIEND

"What can I make for Cousin Genevieve that will be of use to her on her trip to Rome?" inquired a roung friend of me one day.
"دake hera"Handr Pocket,'" I responded. I do not kuow what we would, have doue without the one I received just before we went to India. And tell your cousin, from one who has liad experience, to have everything in readiuess before the steamer starts, for she will undoubtedly need things handdy for a few days after they once hegin to 'sail the ocean hlue.' Handkerchiefs without number should be placed in the 'etcetera' pocket-a few nice, dainty ones, hut many old soft ones that are to be used, then thrown away: One may take it for grauted that they will he blessed (?) with seasickness, and prepare accordingly. This sick ness is indeed terrible while it lasts, but one is so happy to be over it that he soon forgets he ever was seasick. And after this stage has passed there is nothing to compare with an ocean royage. Your cousin's own tastes and desires will dictate to her what she wishes to place in the 'and so forth' and ' $\&$ ' pocket-any articles that she may desire to be especially convenient, for it is not easy to lean over and get things out of a steamertrunk. The ship at its best is rather 'rolly.' "It is generally the custom to dress for dinner, especially if there he any English on hoard; hence, whatever little toilet arti-

cles are desired to be used in this proces should be safely stored in onc of these "It will be none too large to have the foundation of this bag one yard square Another yard is required to make the pock cts, aud the ones desigued to hold the soapdish, sponge or wash-cloths, nail and 'tooth brushes should be lined with rubber oilcloth.
linen in its natural color is the best material used. About four inches from the top and two inches from the sides place the upper row of porkets. Sinme gather fuilucss, but 1 prefer to have a plat at the
lower corner of each pocket, while the re mainder of it is drawn taut. The greates that yet they quickly made on the machine by hinding with bright-colored braid or tape.
"One can readily see from the illustration that each pocket is not made and sewred on separately, but that three strips are made for the three different sets of pors a one pocket from its neighbor.

The pocket containing well-stocked nee de-cases and thimbles should also contain dainty piece of fancy-work and crocheting that the tourist may hare something con timent when she wishes to while away her time at such pleasant work. The buttons should be in bags, with one sewed on the outside to show what kind is within. The case for the scissors should be made of chamois-skin or leather, and should be made like a spectacle-case, so that the sharp points will not be apparent/in the pocket. The lower cases should be about one foot deep, while the others need to be six or eigh inches in depth.
"The tooth-brush, nail-brush and scissors being narrow do not require a pocket more than three inches wide, yet they are more onvenient if made wider. When the whol is finished fit another piece of linen as a back piece, and bind the two together with braid. Put on loops with which to hang it up, and ribhons with which to tie it togeth er when rolled for carrying

Ella Bartlett Simmons.

## FIVE GOOD RECEIPTS

Okra a la Dacbe.-Take half a dozen tomatoes, cut thens up fine after taking off the skins. Add to them two sliced onions, and fry in two tablespoonfuls of butter. When the onions are hrown add a gill of hot water, a tahlespoonful of flour and one quart of sliced okra. Let it simmer over a slow fire for about two hours; if it gets rery thick add little hot witer Season with pep per and salt and pour it ower two slices of per and salt, and pour oren slices of an appctizing dish and you can utilize ham an appetizing dish and you
Beets, Baked or Cold.-If crisp and Beets, Baked or Cold.-If crisp and the least wilted or tough put them in eold the least wilted or tough put them in eold
water until tender, then scrape them thorwater until tender, then scrape them thor-
oughly, and eut into thin slices. Put some oughly, and eut into thin slices. Put some butter into a baking-dish and let it melt, say a tablespoonful of butter to ten small, young beets. Then put in the beets, and salt and pepper them.. Shake up about every ten minutes till the butter and seasoning get well worked into the heets, and bake in a moderate oren for two hours. After the first hour do not touch the beets, the shak ing up is all to be done in the early stages of the cooking. Cold boiled beets dieed make a delicious salad, the mayonnaise combining tastily with the sweet beets.
"Herbes Fines."-In many French receipts you read of flavoring as heing "herbes fines." A little is a great addition to omelettes, to warmed-over meats, minces, You may prepare a quantity and it will last in perfect condition for two weeks in sim mer if kept eold, much longer in winter Take a eupful of chopped shallots, or little onions, two or three parsley-leares, some bits of celery, a bunch of thyme, sage and a little lemon-peel. Melt three ounces of but ter, and add this chopped mixture. Stir for some time till the butter becomes clear then put into a glass or earthen jar, and cover. Keep cool
To Bafe Egg-plant.-In the South the usual way of cooking egg-plant is to hake it. It is much more delicate than fred, ageplant till it is tender clanging the water several times so it will not be bitter. When sereral times so in longthise, and scoop out the inside, being careful not to break the skin. Scason the pulp with pepper, salt, butter and a few bread-crumbs. Return to the two halves of the skin, dust bread-crumbs the two halves of the skin, dust hread-crumbs over the top, set iu a pan, and bake. It
does not take long to boil them, but about does not take long to boil them, but about one and one
themb brown.
Cori Oisters.-Parboil the corn, then grate it with a coarse grater (the kind known as "cabbage-grater" is best) into a deepl dish. To each two ears of corn allow one egg. Beat the whites and yolks separately and add them to the corn with one tahlespoonful of flom and one tablespoonful of butter. Salt and pepper to taste. Lay a sloonful at a time in hont butter, and ir brown on buth sid

Mrs. S. P. Moore.


LEAN HARD
Child of my love, lean hard,
linow thy burden, for I fasbioned it Poised it in
rrecisely that which I saw best for thee And when I placed it on thy shininking form, On me, this burden shall he mine, not thine So sball I keep within my circling arms The chlld of my own love; here lay it down, Nor fear to weary Him who made, upholds,
And guides the universe. Yet closer come Thou art not near enongh. Thy care, thyself Lay hoth on ue, that I may feel my child Reposing on my heart. Thou lovest me?
I doubt lt not; then, loving me, lean bard

## A MESSAGE TO GARCIA

I$N$ all this Cuban business there is one man stands out on the horizon of my memory tike Mars at peribelion. United States it was very necessary to cominunicate quickly with the leade
insurgents. Garcia was somewhere in the nountain fastnesses of Cuba-no one knew where. No mail nor telegraph message could reach him. The president must secure his co-operation, a
What to do!

Some one said to the president, "There' a fellow by the name of Rowan will find Garcia for you if anybody can.'
Rowan was sent for and given a letter to be delivered to Garcia. How "the fellow by
the name of Rowan" took the letter, sealed it up in an oilskin pouch, strapped it ove his heart, in four days landed by niglit of the coast of Cuba from an open three weeks eame out on the other side of the island, having traversed a hostile country on foot and delivered his letter to Garcia, are thing I have no special desire now to tell in detal ley Garcia. Rowan als the lotter and did not Gare "TTh, Ro ne" By and ask, "IV here is he at?" By the Eternal
there is a man whose form should be cast there is a man whose form should be cast in deathless bronze and the statue placed in
every college of the land. It is not bookevery college of the land. It is not book-
learning young men need, nor instruction about this or that, but a stiffening of the vertebrae which will cause them to be loyal to a trust, to act promptly, concentrate their energies; do the thing-"Carry a message to Garcia!’

## General Gar

## - No man who has endeavored to carry out

 an enterprise where many hands were needed but has been well nigh appalled a the inability or unwillingness to concentrat the a thing and do it. Slipshod assistance foolish inattention, dowdy indifference and half-hearted work seem the rule; and no man succeeds unless, by hook or. crook orthreat, he forces or bribes other men to assist him; or, mayhap, God in his goodness performs a miracle, and sends him an ange of light for an assistant. You, reader, put this matter to a test: You are sitting now in your office-six clerks are within quest, "Please look in the encyclopedia and make a brief memorandu

## Will the clers and

and go do the task? you out of a fishy eye and ask one or more of the following

Which encyclopedia?
Where is the encyclopedia
Was I hired for that?
Don't you mean Bismarck
Is he dead?
Is there any hurry?
Sha'n't I bring you the book and let you look it up yourself?
What do you want to know for?
And I will lay you ten to one that after pla:rec how to find the information, and get one of the other clerks to help him tr you there is no such man

Now if you are wise you will not bother to explain to your "assistant" that Correg gio is indexed under the C's, not in the K but you will smile sweetly and say,
mind," and go look it up yourself.
And this incapacity for independent action, this moral stupidity, this infirmity of the will, this unwillingness to cheerfully catch hold and lift, are the things that put pure socialism so far into the future. If men will not act for themselves, what wil they do when the benefit of their effort is
for all? A first mate with lnotted club seems necessary; and the dread of getting "the bounce" Saturday night holds many a worker to his place.
"You see that bookkeepcr," said the foreman in a large factory.
'Yes, what about him?"
"Well, he's a fine accountant, but if I'd send him up town on an errand, he might accomplish the errand all right, and, on the other hand, might stop at four saloons on the way, and forget what he had been sent for." message to Garcia?
We have recently been hearing much maudlin sympathy expressed for the "down trodden deuizen of the sweat-shop" and the "homeless wanderer searching for honest employment," and with it all often goe many hard words for the men in power.
Nothing is said about the employer who
grows old before his tine in a vain attempt grows old before his time in a vain attempt to get frowzy ne'er-do-wells to do intelligent "help" that does nothing but loaf when his back is turned. In erery store and factory there is a constant weeding-out process going away "help" that have shown their inca pacity to further the interests of the business, and others are being taken on. No matter how good times are, this sorting continues, only if times are hard and work is scaree the sorting is done finer-but, out worthy go. It is the survival of the fittest Self-interest prompts him to keep the bestI knowe can carry a message to Garcia.
I who has not the ability to manage a business of his own, and yet who is absolutely worth less to any one else because he carries with him constantly the insane suspicion that his employer is oppressing or intending to opwill not receive them. Should a message be given him to take to Garcia, his answ To-night this man walks the streets looking for work. No one who knows him dare employ him, for he is a regular firebrand of discontent. He is impervious to reason, and the only thing that can impress him is the toe of a thick-soled No. 9 boot.
Of course, I know that one so morally de formed is no less to be pitied than a phys ical cripple; but in our pitying let us drop to carry on a great enterprise, whose work ing-hours are not limited by the whistle and whose hair is fast turning white through the struggle to hold in line dowdy indifference, slipshod imbecility, and the heartless ingratitude which, but for their enterprise would be both hungry and homeless.
Have I put the matter too strongly Possibly I have; but when all the world has gone a-slumming I wish to speak a word of sympathy for the man who succeeds-the man who, against great odds, has directed the efforts of others, and, having succeeded finds there's nothing in it; nothing but bare board and clothes
I have carried a dinner-pail and worked for day's wages, aud I have also been an employer of labor, and I know there is something to be said on both sides. There is no excellence, per se, in poverty; rags are no recommendation; and all employers are not rapacious and high-minded any more than all poor men are virtuous.
My heart goes out to the man who does his work when the "boss" is away as well as when he is at home. And the man who, when given a letter for Garcia, quietly takes the missive without asking any idiotic ques tions, and with no lurking intentiou of chucking it into the nearest sewer, or of do ing aught else but deliver it, never gets "laid
off"," nor has to go on a strike for wages. Civilization is one long, anxious
sueh a man asks shall be granted; his kind is so rare that no employer can afford to let and village-in every office, shop, store and factory. The world cries out for such; h is needed, and needed badly-the man who can carry a message to Garcia.-Elbert Hub bard, in the "Philistine."
the educational needs of the average
What, then, does the arerage woman
need? In the first place, a thorongh manual need? In the first place, a thorongh manual
training. She needs to know how to cook a wholesome meal properly, to put it on the
table appetizingly, and to do this with the minimum expenditure of energy. It is one of the most hopcful signs in elementary lold training are being introduced into those schools which the children of the genera population attend. The need of this prac tical domestic training for girls has probably eral readjustment of occupations and duties going on between men and women it is
more and more apparent that boys as well as girls need a certain amount of elementar domestic training. It is a mere fetish, for
instance, that women should do all the mending or even have all the care of chil dren. There are many families in which family happiness, comfort and prosperity would be greatly promoted if the husband take a eompetent share in the routine work of the household. There are many generous and kindly husbands who would be glad to help, but who are incapable through lack of elementary training. Since the bearing and
rearing of children is the most important rearing of children is the most innportant
function of women, the mother must be relieved, at least at times, from many of he
ordinary household cares. If there be no money enough to hire extra service, it
inevitable that the father should take, least temporarily, some of these duties, if t family is to be maintained in comfort.-Pop ular Science Monthly.

## USES FOR LEMONS

The juice of a lemon taken in hot water on awakening in the morning is an excellent better than any anti-fat merlieine
Glycerin and lemon-juice, half and half thing in the world wherewith to moisten the lips and tongue of a fever-parched patient A dash of lemon-juice in plain water is an excellent tooth-wash. It not only removes tartar, but sweetens the breath.
A teaspoonful of the juice in a small cupful of black coffee will alnost certainly The fins of headache.
The finest of manicure acids is made by putting a teaspoonful of lemon-juice into cupful of warm water. This removes most he cuticle more done by the use of a sharp instrument.

## YOU WILL NEVER BE SORRY

doing your level best
For your faith in humanity
For loeing kind to the poor
For hearing before judging.
For hearing before judging.
For being candid and frank.
For thinking before speaking.
For discounting the tale-bearer For being loyal to the preacher For standing by your principles. For stopping your ears to gossip. For asking pardon when in error For bridling a slanderous tongue. For being generous with an enemy For being square in business deals.
For sympathizing with the oppressed

## A CHARACTERISTIC OF GREAT MEN

 aid a citizen of the world, "a charaeteristic of great men is that they have tim They are not in a hurry; their work doesn't hoss them, but they boss their work. They an't act as if every minute you stayed was and fidget. What time they do derote to ou appears to be time that they can spare, and take things easy in, and he comfortable The work seems to be incidental, and it eems as thouglr they could turn to it when the time came and get through it with ease; and they always seem, besides, to havestrength in reserve. It is a characteristie of the great man that he has time."-New of the gre

## LADIES

 Write to-aty for a PREF sample of ALLEN'SFOOT- $I S E$ a
a shoes. It makes tight or new shoes feel easy. Smarting, Hot, Callous, Sore and sweating and comifortable 30 en trime Drug and Shoe Stores sell it, or by mail, 25 c

## No Money in Advance:


dealers' lark profits. Write today for special offer. Illug-
trated Catalogue Free. CASH BUYERS' UN1ON,
162 W.
\$30oo OUR PIASA BIRD SULKY


AGENTS MAKE $\$ 10$ DAlLY SELLING NEELY'S





Over 70 sizes and styles. for driling elther deep or
shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers.
Strong sinaple and. durable. Any mechanic can
Sperate there easily. Send for catalog.

WELLS
 the best ma-
chinery for chinery for
making wells,
to any depth,
to any depth,
write us, for
fow catalogue we make it. Send for our new catalogue
"V." We will mail it to you free.


AGENTS WANTED
$\qquad$
HOWE MILITARY SCHOOL uns kitucteros

SHORTHAND
Ray

WANTED






AT THE DENTIST'S
I've had a holler tootb filled, an' I didn't rell a mite: "little man"-
The dentis" callcd me " But I wriz honn' to stan' it, for But I muz honn' to stan' it, for
Pa said, 'Nowr, Jimmr, lad, Pa said, 'Norr, Jimm?, lad,
Perten' yon've been amay to And rou've got wonnded, had." The dentis" said, "That car"ty Can't be fixed np too quick:
A tiny mirror helped him see A tiny mirror helped him see He stretched my month, I gness a mile; For, my! I conldn't swaller while He wuz at work inside:

An' then he dug an' dng an' dugBut what I hated wnz
The thing I aall a "doodle-hug;" Canse, sakes! hnt it can hnzz? He'd put that in, an' whir an' whlr Till it wud feel red-hotdon't want more of that; no, sir! Sh'd say I'd rather not.
An' eren when he didn't tou Somehor it hurt me jus' omehow it hart me jus as much, But when he got the malgum stuff All wadded in an' flat, I said, "Oh, pooh! I'm pretty tongh!
I've stood lots more than that!"'

NOT TO BE PUMPED

Asmall Scotch hoy had been summoned to give evidence against his
father, who was accused of diso father, who was accused of disorder-
ly conduct in the streets. The bailie hegan to wheedle him:
"Come, my wee mon, speak the truth,
let us know all ye ken abont this affair." "Weel, sir;"" sald the lad, " $d$ 'se ken Inver"I do, laddie," replied his worship. Weel, re gang along it, and tnrn into the "Yes, yes," said the bailie, encouragingly. "And when ye gang across the square ye turn to the right and np into High street, prmp."
"Quite right, my lad: proceed," said his worship: "I know the old pump well." "Weel," said the boy, with a look of infan-
tile simplicity, "re may gang aud pump it, tile simplicity, "re may gang aud pump
for ye'll no pump me."-Baptist Uuion.

RIGHT AFTER ALL


NO DIFFERENCE
Ligbtning-rod agent (triumphantly)-"I have
done a good picce of work to-day, dome a good picce of work to-day, iny dear.

$\qquad$

## ITS PATHOS LOST

"Now, is that not patbetic?", said a bener olent-looking old geutleman, standing with a friend in a near-hy doorway. "See how the
poor crave ice this sultry weather! Yon and poor crave ice this sultry weather: whenever we want it. can't imagine what a whenerer we want it, can't imagine what a
luxnry it is to them! That little fellow is happr becanse he has rescned a morsel of coolness from a filthy gntter: Come here minute, my hos.
The child approached by cautions detonrs, shifting his ice from one hand to the other "Here is a dime for yon," said the old gentleman, kindly. "Go buy jourself a glass of lemonade. Yon musn't eat that stuff; it mas
make you sick.
"I wasn't goin"
"I wasn't goin' t' eat it," replied the gam-
in, seizing the coin. in, seizing the coin. surprise. "What did rou want with it surprise
then?",

## then? urchin grinned.

"I wanted ter put it down de hlind man's hack," he replied.-New Orleans Times-
Democrat.

## Little bits

"Persons who stammer," said the pseudoscientific hoarder, "do so hecause they thlnk faster than they can talk., "Is "Is that the reason,", asked the sarage bachelor, "that we so seldom meet a woma
who stammers?"-Indianapolis Jonrual who stammers? -Indianapolis Jonrual "Moner," said the philosopher, "may often
do more harm than good. Sometimes the do more harm than good. Sometimes the mighty dollar is a man's worst enemy.
"Yes," answered seuator Sorghum "Yes," answered Seuator Sorghum; "and I often feei that a numher of people love me
for the enemies I have made." for th
star:
.
"And so her father got rich out of an in rention? Well, I'm surprised. He doesn't look as if he knew enough to invent ans thing."
"He
"He didn't invent anything except a plan for freezing out the inventor."-Chlcago
News.
An intelligent farmer has discorered that
by planting onions and potatoes in the same by planting onions and potatoes in the same
field in alternate rows the onions hecome so field in alternate rows the onions hecome so
strong that they hring tears to the ejes of strong that they bring tears to the ejes of
the potatoes in such rolume that the roots are kept moist and a big crop is raised in spite of the dronght.
"Have you heard from your son in the Philippines, Mrs. Parkins?",
"Oh, res, indeed, Mrs. Jones. He writes regularly."
"And is bis beart in this war?"
"I don't exactly know. I jndge from what he
Annt Ethel-"Well, Beatrice, were you very hrave at the dentist's?
Beatrice-"Yes,
Annt Ethel-"Then there's the ten cents I promised you. Now tell me what he did to Beatrice-"He pulled out two of Willie's

A tronbled hut trusting subscriber recently rrote to the editor of the Huron, Kansas, "Herald:" "What ails my hens? Erery
morning I find one or more of them keeled morning I find one or more of them keeled Ther, to reply was: "The fowls are dead. It is
thore. an old complaint, and nothing can he don except to hary them.
"Clara Jane," said the retnrned soldier, whose heart was beating tnmultuously, "'ron nust pardon me if, in my confusion, I gave
you the military salute when I came in." you the military salute when I came in."
"But you didn't, Oscar," shyls replied tbe "But you didn't, Oscar," shyls replied the malden, who had formed a crude idea of the
military salute from what she had rcad ahont military salute from what
Hobson.-Chicago Trihune.
"Yes," he said, as he was showing a friend the beanties of the cits. "this is the Grand that a woman fell from here some time ago and lost one of her eycs."
"Yes; and then she sued the city fo
$\$ 15,000$."
Mother-"Yon hroumbt this Charlie. I told yon that all that apple pie you ate last night would throw your diges-
thon out of order." Charlie-"' Taln't ont of order, ma; lt's in order." Mother-"Charlie! wheli you are suffering

Charlle-"Well, it is, ma-in apple pie

 WE WANT YOU

T0 represent the WOMAN'S HOME COMPANION, the most beautiful and popular family magazine in the world. We want one representative at every post-office in the United States, and in towns of 2,000 or over we want two or more representatives, according to population.

Through these representatives we mean to present the merits of this magazine to every family in the United States within the next eight months.

WILL YOU REPRESENT US AT YOUR POST-OFFICE? If so, write us to-day for "Instructions to Club-Raisers," order blanks, return envelopes and terms.

We already have a circulation of more than 325,000 copies a month. This means that we probably have some subscribers right in your community whose subscriptions will expire soon. Unless reminded of the matter they may neglect renewing. If called upon in time they are certain to renew. We will allow you just as much for getting one of these to renew as for getting a new subscriber.

Send us the name of your minister on your card, and we will send you a list of such persons. Thus you have the way opened up for an easy beginning.

THE OUTFIT IS FREE. The work is pleasant and profitable. How profitable? It would take too much space to outline here the various rewards we offer for clubs of subscribers, but upon receipt of your card we will send you a full explanation of our terms; which we are sure will be more than satisfactory. Address

## WOMAN'S HOME COMPANION, <br> SPRINGFIELD, OHIO

FIMMMAMMMNAMAMMMAMAMMAMMMMMMMAK

## Nuys min HAMMOCK



FREE
This Handsome Hammock given FREE for a club of EIGHT yearly subscribers to Farm and Fireside. See shipping directions below. You can easily make up a club of eight subscribers in one afternoon.

Has an easy pillow, to rest your weary head. Beautiful drapery on the sides. Is closely woven, in bright colors. Every Hammock has the new and improved steel spreader, reinforced with grooved wood. Is stylish, and so well made that it is offered on its merits.

## Given free for a club of eight yearly <br> sUBSCRIBERS TO THE FARM AND FIRESIDE

We will send Farm and Fireside the remainder of $\$ 1.45$
this year and this new and stylish Hammock for $\$ 1.4$
SHIPPING DIRECTIONS-The Hammock must be sent by express, charges to be paid by the receiver in each case. When packed ready for shipping it weighs six pounds. Be sure to g ive express office ifd different from your post-office address.

NOTE-Thirty cents is the cluhbing price for yearly subscriptions to the Farm and Fireside without a premium to the suhscriher. Bnt memhers of elubs may acccpt any
of the promium offers aud their names can be connted in cluhs just the same. Renewals and new nanes, including a club-raiscr's own suhscription, can be counted in cluhs.

Address farm and fireside, Springfield, Ohio

## PATTERNS OF SEASONABLE GARMENTS

We offer this month a selection of up-to-date patterns suitable to the season. The patterns are full and complete, being especially suited for home dressmaking.


FREE We will give any THREE of these patterns for TWO yearly subscribers to Farm and Fireside.


Our war with the Filipinos is the burning question of the hour. It is obtaining greater importance day by day, and every American citizen with the welfare of the country at heart should become thoroughly familiar with the conditions now' existing.

To understand the designs of Aguinaldo, the nature of the Filipinos, the task set for our army and the difficulties in the way, one must study the local conditions of the Philippines. To do this to the best advantage requires

## A JOURNEY TO THE PHILIPPINES

To make this journey in person costs money-lots of money - but you can make it by means of our "Photographic Panorama of Our New Possessions" without cost.

THE HAWAIIAN ISLANDS form one of the most interesting parts of Uncle Sam’s possessions.

THE VOLCANO OF KALAUEA, the largest active volcano in the world, is just now in a state of eruption, and threatens to destroy the City of Hilo, at its base.

OUR NEV POSSESSIONS contains numerous illustrations of the Hawaiian volcanos.

Not only can you make the Journey to the Philippines, but also to Cuba, Porto Rico and Hawaii, with side trips to St. Thomas and the Barbados. You may also take a delightful Cruise with the $N a z{ }^{\prime} y^{\prime}$ and spend some enjoyable days in Camp with the Army. All this is provided for by


## OVER 300 MAGNIFICENT ILLUSTRATIONS

accoompanieo by ful. descriptons

The reading matter in the book gives a brief, interesting history of the islands, descriptions of the pictures and information on climate, population, products, commerce, resources, etc., etc., of Porto Rico, Cuba, Hatraii and the Philippines. Because we publish the book ourselves, and do not make any profit on it at all (it is the subscriptions and clubs that we wish to procure) explains why we offer it at such an extraordinary bargain.


Bishop Museum and Archæolozical Institute, Honolulu 解

The pages are 8 inches wide by II inches long, and there are many full-page illustrations. Full and entire satisfaction guaranteed or your money cheerfully refunded.

We Will Send This Book, and
This Paper One Year, for........ $4>$ Cents Rainbow Falls, Near Hilo, Island of Hawaii

# EXTRAORDINARY INDUCEMENTS FOR TRIAL SUBSCRIPTIONS 

IIN order to introduce Farai and Fireside to thousands of new homes during the next few months we make the following GRAND COMBINATION OFFER: We will send Farm and Fireside to any address for the remainder of the year and give the subscriber choice of any one of the following books, BOTH FOR ONLY 25 CENTS.


#### Abstract

"PHOTOGRAPHIC PANORAMA ${ }_{\text {a marvelous books of soens }}^{\text {of }}$ "is beauty, fascinating entertainment and valuable instruction. Turning its pages is like the passing of a grand panorama. Destiny has suddenly made the United States an empire ; the fortunes of war have added to her care and ownership rich tropical islands in the Atlantic and Pacific oceans. They are Uncle Sam's, yet they are strangers, for want of accurate pictorial knowledge of them. This want is now fully supplied by this new book of over 300 plotographic views. While enjoying these realistic pictures important historical events are painted on the mind, never to be forgotten. Nany of the pictures are a half to a full pare in size. Each page is 8 by $11 \frac{1}{1}$ inches, printed on fine paper. Satisfactiou guarauteed.


#### Abstract

"GLEASON'S HORSE BOOK" Irofessor Gleason is renowned expert and successful horse-trainer of the age throughout .Imerica as the most vicions horses and training horses he is age. For breaking colts, collquering simple and sensible, and can be put into use byect wonder. His inethods are The book coutains 130 illustrations and 415 pages, eacl page 54 inches wide by $7 \frac{i}{2}$ inches long. It tells all about the horse. There are chapters on "Educating the Horse," "Teaching Horses Tricks," "How to Buy," "How to Feed, Water and Groom," "Breeding and Raising Horses," "Breaking and Taming," "Methods of Detecting Unsoundness," "The Teeth," "Horseshoeing," and "Diseases of the Horse." This book, in expensive binding, was sold by agents for $\$ 2$ a copy


## "SAMANTHA AT SARATOGA" and "SAMANTHA AMONG THE BRETHREN"

These two excruciatingly funny books by that clever humorous writer, "Josiah Alten's Wife," are dec
her very best productions, and they are sure to
... MAKE YOU LAUGH UNTIL YOU CRY

## "Samantha at Sa ratoga" was written under the inspi-

 ration of a summer season 'mid the world of fashion at Saratoga, the proudest pleasure resort in America. The book takes off the follies of fashionable dissipation in the author's inimitable and nuirth-provoking style. in the author's inimitable and mirth-provoking style.The story of Samantha's "tower" to Saratoga, accompanied by her "wayward pardner," is extremely funny. panied by her "wayward pardner," is extremely funny.
"Samantha Among the Brethren" was written to exhibit the comic side of the men's argument against exhibit the comic' side of the men's argument against
wonien "a-settin' on the conference," and she does it to perfection. The learned Bishop Kewman said, in speaking of this book, "It is irresistibly humorous and beautiful; the best of all that has come from the pen of "Josiah Allen's Wife.'" Samantha's gossip about the "doin's" of Josiah and her neighbors and the tribulations of the women-folks in raising money with which
to paper and support the "meetin"-house" are just too to paper and support the "meetin'-house" are just too
funny for anything. funny for anything.


THESE TWO "SAMANTHA" BOOKS
ARE ILLUSTRATED BY
OVER 200 COMIC PICTURES
similar to the one shown here
 the books than the one shon'n in this adrertixpment.
Over 100,000 copies of each of these books, in expensive binding, were sold for $\$ 2.50$ a cops. We here offer special premium editions of these two famous books, and each one contains every word and every picture the
same as in the $\$ 2.50$ editions. These books are bound same as in the $\$ 2.50$ editions. These books are bound
in separate volumes, and are printed on good paper. in separate volumes, and are printed on good paper
Size of each page, $5 \frac{1}{2}$ inches wide by $\bar{T}_{2}^{2}$ inches long. Size of each page, $\frac{5}{1} \frac{1}{2}$ inches wide by $7_{\frac{1}{2}}$ inches long. Children and grown people alike read with rapturous
delight these two "Samantha" books. Ther are written in a vein of strong common sense, as pure and innocent as the prattle of a child.

## Remember

Any one of these four books, and Faram and Fireside for the remainder of the year,
... BOTH FOR ONLY 25 CENTS

And in addition we make the following exceptionally liberal offers of PREMIUMS TO CLUB-RAISERS: For Only Ten Subscribers at $\mathbf{2 5}$ cents each, as offered above, choice of any one of the following premiums.

|  | Sizes 4, 5, 6, 7, 8, 9, 10 | Sizes 4, 5, 6, 7, 8, 9, 10 | Sizes $5,6,7,8,9,10,11$ |  | Sizes 4, 5, 6, 7, 8, 9, 10 |  | Sizes 3. 4, 5, 6. T, 6, 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## A GENUINE SOLID GOLD RING

All of these rings are warranted solid gold. All of the settings are open on the back so they can be easily cleaned. These same rings sell for $\$ 2.50$ and upward. No. 345, if bought in a city jewelry-store, would be considered cheap at \$3. Warranted to be solid gold and to give full satisfaction or money refunded. The stones set in the rings are only imitations, yet are so perfect that none but good judges can tell the difference

> No. 342-A solitaire initation Diamond in Tiffany setting. No. 43-An Emeralk. (green); a very popular riug. No. 344-Has three Garnets (red), one large and two small

No. 344-Has three Garnets (red), one large and two small ones
No. 346-One mitatiou Diamond and oue Garnet; very stylish
No. 347-A Sapphire (blue); a very beautiful ring.
No. 348-Two Turquoises (light blue), one small Pe
No. 349-One Garnet and one Topaz (brown); pleases little girls.
No. 350-Three Pearls; an attractive ring.
NOTE that the above-named stones are imitations and not real Diamonds, Garnets, Emeralds, Sapphires, Turquoises, etc.

TO FIND THE SIZE OF THE RING YOU WEAR, take a narrow strip of stiff paper that just meets around the finger you want to fit ; lay this strip on measure
shown here, one end at $A$; the other end shows the size to order. Each ring is made shown here, one end at A; the other end shows the size to order. Each ring is made
in seven sizes only. Always give size you want.

## A PEARL=HANDLED, GOLD=TRIMMED PEN

This pen has a pearl handle, gold nose and solid gold pen. Length $6 \frac{1}{2}$ inches. Sells in stores fur $\$ 1.50$.

A SET OF SILVER=PLATED SP00NS... Either TEASPOON DESSERTSPOONS Or TABLESPOON Just like this small cut


This silver-plated ware can be used in cooking, eating and medicines the same as solid silver. Because we buy our silverware direct from the factory in enormous quantities (nearly 200,000 pieces last season), and sell it without profit in order to get subscriptions and clubs, is the reason why we can afford to offer such bargains. Pure Coin=Silver Plating $\begin{gathered}\text { The base of this ware is solid nickel-silver } \\ \text { metal, which is the best white metal known }\end{gathered}$ for the base of silver-plated ware, becanse it is so harri and so white that it wil never change color and will wear for a lifetine The base of all this ware is Will Stand Any Test To test this silrer-plated ware use acids or a STANDARD amount of pure coin-silver and the base solid white metal, and
exactly as described in every other particular, we will refund your noney. If returned to us we will replace free of charge any piece of ware damaged in making the test. ALL OF THE WAFE IS FULL REGULATION SIZE.

INITIAL LETTER Each piece of this

GUARANTEE
entrictly (as st is is described and to give full and


For 20,30 or 40 subscribers choose any 'combination of premiums equaling the number of subscribers you have. IT IS AS EASY AS PLAY to get up clubs under this unparalleled offer. Start in at once and win one or more of the premiums while the offer holds good.

Address FARMI AND FIRESidE, Springfield, Ohio


## a

 and camploror-oil one ounce each, of olive-o and kerosene one eighthl of an ounce each
mix, and shake well. 1 the thosquitoes are
thicker than you ever sawt them, wet a cloti,


a clothes.pin that cost edison ten DOLLARS
Possibly one of the secrets of Thomas thought. The Wizard of Menl Pis fore not beliere in leaving anything undone that






ift,
of
$\begin{array}{ll}131 / 2 & \text { or } \\ & \text { or } \\ \text { ere }\end{array}$ ..... of in
ds aga
部品걱
$\qquad$
$\qquad$
$\qquad$
$\qquad$

ELECTROLYTIC PRODUCTION OF COPPER A large amount of the copper produced in
this country, is norा refined electrically, and is known as electrolytic copper. Some of
the Western works turning nut this product,
especially where water-power is obtainable,




$\qquad$
 electrolytically transferred $1, y$, the solution
to sheets of copper lianging in each tank, so
that

to keep mosquitoes akay

## 

Vol. XXII. No. 23

THE TURKISH FARMER

IHave left this Turkish farmer to come last in my descriptions of European peasantry, first because he is last in the scale of cirilization, and secondly because he is the most difficult to approach and hardest to describe.
Turkey is composed of a mixture of races and religions: Jews, Kurds, Circassians, Albanians, Tartars, and finally. the real Turks, or Osmanlis. The Jews and Armenians are traders and mechanics, the Kurds slare-dealers, and the Albanians and Turks are the real farmers.
The Kurdish and Circassian houses are usually underground dwellings, the cattlestable being one of the rooms of the house. The cooking-store consists of an earthen jar wider in the middle than at the top and botom. Into this receptacle fuel consisting of dried cow dung and straw is thrown, and orer it a kettle is suspended by a chain. Beside this stove the women sit, regardless or the smike and flame, which come like the fumes of $a$ rolcano and are a sure pre American. The smoke gets out as best it can through the one window of the underground hole, but the smell always remains. The furniture, which is rery simple, consists of a few rugs spread out on the floor and some leather wallets, which contain all the personal effects of the family. This is all there is to be seen in a Kurdish shephe
This guns ana pistols.
This one room is used as kitchen, sit ting and sleeping room; here the little Kurds are born, and here the big Kurds die, unless, as is often the case, they die on the field in a bloody fray. There is a storeroom close by the living-room which contains a cistern filled by earthen jars, and in these is brewed the family
drink, called boza, which is pronouncel drink, called boza, which is
rery much like our "booze."
Kurdistan is a barren country, and pasturage is the only agricultural pursuit. Many of the tribes wander from highländ to highland, seeking pasturage and water for their flocks. I have seen in a ralley below me, and although it was an exceedingly picturesque sight, yet it wonld have been somewhat dangero in closer proximity. The baggage of the tribe is carried by bullocks, who also carry the babies and the cradles. - The women are armed and are as ferocious as the men; in fact, those who hare fallen into their hands prefer to deal with the men. The women are not content with robbing a man, but they will strip him to the waist, scratch and pinch him in truly feminine fashion, and put as many thorns into his body as it will hold. The men go about heavily arined, and their sole business is to look after the bullocks, and let the women do the rest.
The Albanians lise in the mountains which stretch along the Adriatic and in the spurs which stretch toward the Balkan plains. The whole country is just one rast friendly as Nature, and generally as untrust worthy and dangerous as the Kurds. The villages are made up of gloomy houses, built Many of the larger farnu-houses are street fortresses, surger farn-houses are regular loopholes for the muskets, and it is no with

thing to enter a rillage and hear the rattling of the guns, and step into the midst of a bloody battle. There is a village green with a public threshing-floor, and up to the time when the snow flies you can hear the "clip-pety-clap" of the threshing-fails swung by the women, for here as elsewhere in Tur-
key the husband does the bossing and the key the husband
wife does the rest

The dress of the Albanian is peculiar, for the men wear short skirts, which on Sundays are clean and stimpy starched, and to see them sittiug down and carefully lifting their skirts is rather amusing. Fet these womanl looking men are good fighters and prefer a fight to going to church or to their mosque. war involving whole villages may start from the merest trifles, such as the breaking of a pitcher by rowdyish boys, or the killing of a rabbit on the neighbors' lunting-ground so that the white skirts of our Albanian farmers are often seen with spots of their neighbors' blood upon them, which spots are a sign of heroism.
The crops they raise are raried, but rather scant. On the sea-shores of the Adriatic all the tropical fruits, stich as oranges, figs and
-
and cultivate
ever tivated. No man except the husband解 house unless closely reiled and carefully watched.
The Turkish farmer of the old school rarely has less than one nor more than trio wives. It is rather an expensive luxury, as women are bought at regular inarket prices, and hase to be fairly well provided for. The "haremlik" often is a place of intrigue, scutting, wire-pulling and hair-pulling, and the jounger Turks are satisfied with one wife. Looking at polygamy as closely as it is possible for a stranger to see it, I an firm in the belief that it is dangerous to society and hard on the men, not to say anything about the women, who if well treated are like parrots in a gilded cage, and if ill treated are like the old cats which ever sbody abuses in one's back yard. I also am of the conviction that gradually polygamy will die out in Turkey as it has passed away from Judaism. Horse from the standpoint of comfort than the multiplicity of wives is the superabundance of a certain kind of insects which abound and increase like the sands of the
beautiful bahy, I was politely told that I must not lie, for the baby was the homelies $\operatorname{imp}$ that ever lived. This was done to avoid
that "eril ere," which is the bane not only of that "eril eye," which is the bane not only of the Thrks, but of many other superstitious people. The proper thing to do when you
see a Turkish baby is this: First spit on it, hat a nasty, ugls, thing it is." This will please the mother better than a compliment.
The Turkish peasant is the most remarkable farmer in the world in this one respect lie never grumbles about the weather nor complains about poor crops. "It is the will of Allah." If the locusts come and eat up his crops "it is the will of Allalh." If it is too dry or too wet "it is the will of Allah." It would be a sin to complain. In fact, what ever happens is accepted in the same spirit of resignation, which is rery beautiful, but rather hard on the derelopment of the country. I suggested to a farmer the spraying of his fruit-trees against a common pest, which usually got half the crop; but he looked at me with calmness and disgust, and said, "If Allah sends the pest, his will be done." In this fatalistic spirit the Turk lires and dies. There is no enterprise, no hurry no anxiety; everything mores as it moved five hundred years ago, and I suppose will more in this way until "moons shall wax and wane no more.

## TURKISH LIFE

$\mathbf{A}^{\text {s is most oriental cities, there are }}$ Constantinople the outdoor life and indoor life. The majority of Turk leare their homes in the morning and ceturn late in the afternoon when their work is done. During the day thes lire out of doors in the bazaars, but as soon as the Turk has completed his busines he goes home, and if you ask for him you will be told that he is in the harem, and not to be disturbed, and, as a rule, his servants will refuse even to inforn him of your presence. If it is indispensable that you should see him, you mas wait his pleasure in the selamlik, the room for receiring male guests, and besond which are the mysterious regions of the harem. "Harem," in the
modern acceptation of the word, merel means the private apartments, and these would be called by the same name even in bachelor's establishument inhabited solely by men, but generally it is applied to ever place intended for women. The end of the Turkish railway carriage curtaīned off from the rest is harem ; so is the ladies' cabin on board ship, and the latticed gallery in mosque. In the il welling-honse it is all tha quarter inlabited by the wife and children and other ladies of the family. And here I may say that few Turks nowadays hare more than one wife, though the horan allows every man four at a time, and encourages a constant change by facilitating dirorce
The traditional 'Turk with his innumerable women no longer exists, except as a very rare exception, but the Jussulman has not sacrificed the adrantages of the privacy granted him by the Mohammedan law and granted Thaterer exists or goes on behind the doors leading out of the selamlik belongs the doors leading out of the selamlik belongs knowledye of Eastern manners would think knowledge of Eastern manners would themen in the house.-From "Constantinople," by in the house.-Fron
F. Marion Crawford

FARM AND FIRESIDE
The Crowell \& Kirkpatrick Co.
147 Sassan Street,
Kew York City

TERMS OF SUBSCRIPTION One Year - ( 24 Numbers) Six Months
(12 Numbers)
50 Cents The above rates include the paz

30 Cents press when order is received
Subscribers reeeive thls paper twiee a month, which
is tirice as often as most other farm and family jourbals are issued.

## Payment, when sent by mall, Should be made in Ex- press or Post-ofice Joney-orders, Bank Checks or  Silver. When sent through the naail, should be carefully wrapped in cloth or strong paper, so as wear a hole tbrough the envelop and get lost. <br> Postage =stamps will be received in parment for sub- scriptlons in sums less than one dollar, if for every 25 cents in stamps you add ode-cent stamp extra, The date on the "fyellow label" shows the time The date on the ""rellow label" shows the time to whllec each subscriber has paid. Thus: sep99 means that the suhscription is paid up to September, 1899; When money is received, the date will be changed within four weeks, which will answer for a receipt. 

## The Advertisers in This Paper

 We believe that all the advertisements in this paperare from rellabie firms or brsininess men, and do not lutentionally or knowingly insert advertisements from
any bit rellable parties; if subscribers find any of them
to be otherwise we should be glad to know it. Always
nention this paper when answering advertisemeuts mentiou this paper when answering advertisemeuts,
as advertisers often have different thiugs advertised as a dvertisers of
la several papers.

## What-rithayetanit?

T$\Gamma^{\text {wo views of the proposition to solve the }}$ race question of the South by the exodus of the black man are expressed in recent interviews of the Chicago "Timesrecent interviews of the Chicago "TimesHerald." President Booker T. Nashastrial Institute, Tuskegee, Alabama, said:
"The next census will show that the ne-
oes number about $10,000,000$, of whom groes number about $10,000,000$, of whom
$8,000,000$ at least are in the South. I regard $8,000,000$ at least are in the South. I regard
it as impracticable to move any large proit as impracticable to move any large proportion of that total. I have recently re-
turned from Europe. While in London, which is the center of African interests nowadays, I made a special study of Africa. Africa is the only place for the black man to go, but it is now parceled out among Euro-
pean powers. I should prefer to stay here and take my chances rather than take them under an alien flag. Outside Liberia there is no room in Africa, and Liberia is small and unhealthful. The black race must work out its own future in the South by education, mechanical, intellectual and moral.
When you consider that only for thirty years When you consider that only for thirty years
has the experiment been made you will not has the experiment been made you will not
be too hasty in your judgment. Thirty years is a short time in an evolution. That the negro needs is property and education, and
when he gains those he will gain his rights. when he gains those he will gain his rights.
At my school we have one thousand stuAt my school we have one thousand stu-
dents; we give instruction in twenty-six
industries, and the students have seven hunindustries, and the students have seven h
dred acres of land under cultivation."

Bishop Henry M. Turner, one of the leaders of the Liberia colonization scieme, said: "You whites never get along with any
other race. As I read history you have oppressed them all. Aciown-trodden, a bject, oppressed zed race excites plenty of pity, but
ditmoralizgets nets any respect. A nation to be a it never gets any respect. A nation to be a its laws, its literature, its bishops, its states-
men. That is what we black want. I feel men. That is what we blacks want. I feel
that we can do it. Give us a chance to make
a black nation in Africa. Tet the sorerna black nation in Africa. Let the govern-
ment whicl owes us something provide a
steamship line to Africa, and let us have steamship line to Africa, and let us have
cheap passage. There is no hope for the cheap passage. There is no hope for the
black race in the South."

Goverxor Theodore Roosevelt re-
cently delivered an address to twelve thousand persons at Ocean Grove, New Jersey, on "Practical Politics and Decent Politics." He said, in part:
"Then I am addressing a body like this I naturally like to speak on the question of political life, for in a country such as ours the political life must in the long run corre spond to the social and religious life.
"It is idle for the mass of good citizens to try to set themselves apart as not responsible
for our pelitical shortcomings. In the end the politicians must be exactly what the people allow them to be. They must represent the people-perhaps the vice, perhaps the virtue, perhaps the indifference of the people. This does not in the least excuse
politicians that are bad, and we must keep politicians that are bad, and we must keep
in mind the fact that every vicious politician in mind the fact that every vicious politician
-above all every sucessful politician-tends -above all every successful politician-tend men bolder, and decent men who are no far-sighted more cynically indifferent than
"But in blaming the politician do not for get that we are ourselves to blame for per mitting his existence. Again, do not let us fall into the mistake of thinking that we shall ever make politics better by hysterics in any shape or form. Wild denunciation of all politicians, good and bad, is the very thing most adrantageous to the bad polhalf false, loses all practical effect, as it is impossible to separate the true from the false. In the same way a place second in infamy to the man who is dishonest in politics is occupied by the man who wrongfully accuses him who is honest of dishonesty.

Again, aroid another form of hysterics Do not trust to sudden uprightness, to sudden insurrections of virtue. Do not get into the habit of permitting things to drift from bad to worse, with the belief that you can
always apply a revolutionary remedy. Iou might just as well expect to conduct a private business safely on such principles as to get a satisfactory government by their application in public life. Revolutions are sometimes necessars, but government by revolution is not a success.
"We have a right to demand from" our good citizens that they apply themselves
not intermittently, but steadily, to their pub notintermittently, but steadily, to their pub-
lic duties; that they make it their busines lic duties; that they make it their business stand and what they do, and that they keep our politics at a constantly high level. It ought to be true, but unfortunately it too often is not, that questions of morality should never be party questions. It is a shame to us as a nation that we should have administration against which it is necessary administration against what not on the grounds of political exto war, not on the grounds of political ex-
pediency, but on grounds of elementary morality. We never can have politics on a satisfactory basis in this country until we make it understood that dishonesty in a public servant is an unpardonable sin; that corruption of any kind will not be condoned for any consideration of party expediency. When it is thus understood that the first requisite of a public servant will be honesty, when we rule out once for all any system that is corrupt, then, and not till then, will we have the road free for our political development, for the fighting out of political issues on the proper plane.
"Now, this is decent polit
fore it is practical politics means all that there is of practical politio means all that there is of practical politics.
It is not enough for you to do what is honest yourselves and insist upon honesty in others; it is not enough for you to act up to what you believe to be right. You have also got to possess courage, and, finally, you
have got to possess common sense. Courage, have got to possess common sense. Courage, because if there is one individual who is not entitled to exist in a community like ours it is the timid good man.
"In New York I firmly believe that the decent people could combine to overthrow the civic corruption if they only would; but, as a matter of fact, they are so apt to fight one another, so apt to quarrel as to exactly how high the ideal of their government slaall be, that they too often throw the victory into the hands of those who have no ideal at all, and who in addition to a cynical belief in the power of corruption and in mere the practical common sense that you expect a man to show in managing his own business. As long as good men are mere visioncourse they do not acconplish very much. Of
of the visionary in them, or else they won't
be good men. When a man ceases to strise be good men. Then a man ceases to strive a higher ideal and to endeavor to realize it so far as his own limited powers and the human frailty of those about him permit, why, he ceases to be useful at all. The one trait which of all others seems to me the least admirable in our national character is the tendency to deify mere smartness, mere success, without regard to whether the success is obtained by worthy or unworthy methods.
'Take Abraham Lincoln's words when he said that if he could not get the best, then he was going to get the best possible. Never be content with evil, never accept apologies for what is bad, but do not throw away the chance to get good merely because it is not the best that under ideal conditions could be obtained. Moreover, in politics remember especially that you want to mix with your fellows, and, above all, with the good men whose ideas of what is right and proper do not in all respects square with yourself far as you can respect their prejudices, and remember that you doubtless have a good many of your own of which you are entirely ignorant. Try to strike hands in the effort, and struggle to obtain what you both believe in instead of wrecking everything to the profit of the worst foes of both of you by quarreling over the points on which you cannot come to an agreement.
"The call for great heroism in an individual or in a nation does not often arise. If you wait for heroic days to come before you exert yourself you will simply be a drone, for it is in doing the little duties of the time that count most for good. Still, the need for heroism does now and then arise. Just at this moment the nation is face to face with a duty that calls for heroism. I mean our attitude in the Philippines. We put our pick into the rotten foundation of Spanish government both in the East and West Indies. We tumbled the building down in as righteous a war as was ever undertaken. Now, if we are worth our place among the great nations of the earth we must see to it that of justice are cleared away and the temple
"TWe shall be guilty of a terrible wrong to humanity if in the Philippines we retreat before armed saragery instead of organizing a suitable government which shall guarantee justice to every one and an ever-increasing measure of liberty to those who show themselves worthy of it. The whole history of the world shows that the wrong done by the mere sentimentalist is often of larger proportions and more elastic than any other be of wrong, and of this wrong we shal be guilty if we fail to do our task thoroughly fraction of our strength prorided only we choose to exert that strength. If, however, the people let their representatives in Congress hamper the administration as they did last winter, when they refused to put the army on a proper footing as to size, per manence and organization, then the people have themselves to thank if the war lingers, with difficulties and dangers increased.
"What the people have to do is to resolve to back up the President to the full in seeing that the outburst of saragery is repressed once for all; to see that these new tropic islands in the East and West alike are not left to be the prey of partisans and spoilsmen, but are interest of their inhabitants, and, therefore ultimately for the honor and renown of America

IN replying to an address of welcome a 1 Cliff Haven, New York, President McKinley recently said:
"Whatever the government of the United States has been able to accomplish since last met you in this audience-chamber has been because the hearts of the people liare been with the government of the United States. Our patriotism is neither sectional nor sectarian. Te may differ in our political nor sectarian. religious beliefs, but we are united for country. Loyalty to the goverument is our national creed. We follow, all of us, one flag. It symbolizes our purposes and ou aspirations; it represents what we believe and what we mean to maintain, and wherever
it floats it is the flag of the free, the hope it floats it is the flag of the free, the hope of the oppressed, and wherever it is assailed, at any sacrifice it will be carried to a tri umpliant peace.
"We have more flags here than we eve had before in evidence everywhere. I saw them carried by the little ones on your lawn
and as long as they carry these flags in thei little hands there will be patriotism in their
hearts. This flag now floats from the homes hearts. This flag now floats from the homes
of millions; eren from our places of worship of millions; eren from our places of worship
it is seen, from our school-houses, from the it is seen, from our school-houses, from the shops and the factories, from the mining pioneer, on waves from the camp of the pioneer, on the distant outpost, and on the lumberman's hut in the dense forest. It is found in the home of the humblest toiler, and what it represents is dear to his heart Rebellion may delay, but it can nere defeat its blessed mission of liberty and humanity.

The mission of our flag is the mission of liberty and humanity ; wherever it floats it is the flag of the free, the hope of the op pressed; and wherever it is assailed, at an sacrifice it will be carried to a triumphan peace. This is the policy of the administra tion openly declared, and the hearts of the people are with it

## ris

Wh. Carletox's "Improvements In ment of Culture," published by the Depart treated as follows
"Many experiments made in recent years show the advantage of using large and rig orous seed in growing various field an garden crops, but it is only lately that atten tion is being given to the use of such seed in wheat-growing. At present experiments ar being made at several different places to test this point with reference to wheat three grades of seed-small, medium and large-being used. Too much attention can not be given to this subject. Many choice varieties have been developed by selecting from a field certain unusually good heads, planting the grains of these separately, and thereafter selecting the best each year. I has already been satisfactorily prored that the old idea that rust-shriveled grains give as good returns as large, healthy ones is erroneous. About the year 1876 a semi hard red varety kno (probably an Odessa sort) becal was widel used for ten or twelve years thereafter Howerer, as the variety was adapted for Howerer, as the variety was adapted fo either fall or spring sowing, and the spring
sown crop was always inferior to the fall sown crop was always inferior to the fallsown, the consequence was that two grades fall-sown crop brought the better price it became the practice to sell all the winter became the practice to sell all the winter for fall seeding. or fall seeding. It was claimed that this practice made no difference in the quality or quantity of the winter wheat, but about 1888 Grass wheat began losing favor among wheat-growers, having lost much of its original good quality, and finally gave place o Turkey, Fultz and other varieties. Now here is no doubt that the deterioration of this variety was due, in great part at least, to the constant use of the inferior shriveled spring grain for fall seeding. Many other nstances of the so-called 'running out' of rarieties is probably due mostly to similar causes. However, eren under the best treatment it is a pretty well established fact that certain varietios when introdnced into new localities will in time chance qnite materially. localitity a the hard northern sorts餚 when transferud to wabler southern latitudes. Probably the only remedy in such cases is to ma
fresh importation of seed.
"The matter of seed selection is of such vital importance that probably nothing would be of more benefit to the wheatgrower than the establishment of special small seed plats of say one to five acres from which to select seed each year. The following plan is recommended: At harvest-time cut fron a good field a strip of the best portion, first eliminating all rye and other foreign heads and large weed-seeds. After threshing the wheat from this strip grade it by means of a fanning-mill with special sieres made for the purpose, so as to obtains. Use the best grade of wheat both for sowing the smail plat and for the general crop the next season. The next year use none of the field crop for seed, but after grading the wheat from the small plat, as before, use rery best of it for sowing the sinall plat, and all the remainder for sowing the large field, seed is never takell from the general crop, whicll cannot be given the same care as the which cannot be given the sanstant and there is a constantion small plat, and there is a constant selection of seed, whicl is more and more rigid every rolved except the small amonnt required for grading the seed each year.


Fruit Acids $\begin{aligned} & \text { The following editorial par- } \\ & \text { agraph which appeared in the }\end{aligned}$ last issue of the "California Frnit-Grower,", under the caption "Fruid Acids Gernicidal," has been a source of nuch satisfaction to me; namely, "It is not popularly known
that fruit acids are germicidal. The juice of lemon and lime is as deadly to cholera germs as corrosive sublimate, or sulphur
fumes, or formaldehyde, or any other disinfectant. It is so powerful a germicicie that if the juice of one lemon or lime be squeezed into a glass of water that is then left standing ten or fifteen minutes the water will be disinfected; it makes little difference where the water has been obtained, or whether it has been boiled or filtered. This is a fact worth knowing, for any one in the racation
season nay fild himself under circumstances season nay filld himself under circumstances known wholesomeness, or boiled or filtered water. In such a case the juice of a lemon or lime will purify the water perfectly.

I can only hope that the "California FruitGrower", has good authority for these assermedical practitioners, while generally believing in the gerniciclal power of lemon and lime juice, refuse to make any positive claim to that effect. .I have never learned that the matter has been scientifically and syste-
matically investigated. And yet for years I matically investigated. And yet for years I
acted on the supposition and belief that acted on the supposition and belief convinced that typhoid-fever germs lurk in many wells, and for that reason have b'coone
afraid of well-water as a beverage, pure as afraid of well-water as a beverage, pure as
it may appear, and good as it may be to the taste, unless either boiled or nedicated. The medication has usually consisted of plenty of lemon-juice. It seems to me that this subject is very important. Why are our settle these points definitely? Does lemonjuice really lill typhoid germs, cholera bac.lli, etc. 1 is it necessary or hie mixture of
water and lemon-iuice to stand ten or fifteen minutes before the work of germ-killing is accomplished? What other fruit-juices have the germicidal powers? Why should not the sharp acid of currants, for instance, be just as effective as lemon acid? How about the acid of the strawberry? I am especially interested in the question so far as it relates to currants, however. It is my favorite
fruit. Nothing seens to be so gratifying to my taste and conducive to my general wellfeeling just when recovering from a bilious
attack than a generous dose of currant-juice. attack than a generous dose of currant-juice.
It seems refreshing, cooling and revivifying. We could make a delicious drink by ious water. Will it make such water safe to drink? .Ye solvers of inedical nyysteries, won't you crack these nuts for us?

## The District Scheol

Farm papers are frequently advising their readers to take a greater interest in politics, to attend party caucuses, and make their influence felt in the selection of good candidates for local offices. That is right and good.
I do wish that such adrice would be acted I do wish that such advice would be acted
on, for it would surely result in a great and needed improvement. But how can we expect farmers to look after politics and politicians when they seem to be so indifferent
to things that touch them much closer home? I live in a rather large school district. It has a grade school employing two teachers, a year for teachers' wages. The regular attendance during about forty weeks a year is considerably over a hundred scholars. One should think that the people of a district which has to raise such a large sum of money
by local taxation would watch the expendiby local taxation would watch the expendi-
tares proper schooling of their own children is also at stake. Yet at our last annual meeting only seven persons were present, and two or three of them had come only on special and even urgent invitation. Of all the many people in the district only four elected the
trustee, the collector and treasurer, fixed trustee, the collector and treasurer, fixed
the amount of money to be raised during the year, and in a large measure determined whether another year's school shall be good, bad or indifferent. And yet all this occurred after a great deal of fault-finding about the management of this same school and about
that the whole district was stirred up to fever-heat about these matters. Yoters who
do not go to their party caucuses have no right to complain about the caliber of the candidates put in nomination by their party associates whom through being abseut they refused to aid in the work of selecting the right man for offices, or hinder in their purpose of putting up unfit ones, as the case district-school meetings they have no right afterwards to complain of unnecessary expenditures, or of incompetency of the trustees, or of the poor school kept by the teachers hired by such trustees.

## Duty, Not Privilege We often talk and hear frage. People seem to have gotten the ide

 that to go to the polls and vote is a right which they are at liberty to exercise or not as they may see fit. This to me appears like a grievous mistake. Every American citize is a part of the government, and he cannot get rid of his share of responsibility for it. If he has any opinion of his own, any judginent, any discretion and common sense, his advantage for the public good as well as for his own. He is in duty bound to aid in making the management of public affairs pure and good, and to help select and elect good men to office. He has no right to stay awayfrom the cancuses and the polls. Suffrage, in short, is a right and privilege that puts also a good deal of responsibility on our
shoulders. To look after scholl shoulders. To look after school matters in the district, howe rer, is a still more sacred
duty which every father, every tax-payer is duty which every father, every tax-payer is bound to perform. Shame on you people
who are too indolent, too indifferent, to go who are too indolent, too indifferent, to go
to the school ineeting, thinking you can shift to the school neeting, thinking you can shift
the responsibility on three or four of your neighbors. The education of our children is at stake. Shane on you people who care nothing about that. It may be that the fer
who do attend and do the business are wellWho do attend and do the business are wellyou have no right to put all the burden on their shoulders. But all the worse if those few in whose powers the district management is thus carelessly left or delirered are of the narrow-minded, selfish or corrupt kind of people. Te have thein in all
munities, and muph harm may be done.

## Bungling Bulletins One of my co-laborers

 criticises certain farmers' bnlletins issue by the Department of Agriculture. He sar ("Practical Farmer"): "If the department the farmers and cardeners of the country, why do they not get them prepared by experts in the various lines, and not have mere compilations by gentlemen of the Department of Publication. Recently the department ble Garden,' by Charles H. Greathouse, of the Division Publication. Mr. Greathouse carries after his name the degree of A.M. and we suppose this qualifies him to speak excathedra to gardeners. The letter of the transmittal from the chief of the division says 'there has long been a demand for in-formation on gardening,' which this bnlletin formation on gardening,' which this bnlletin
aims to supply. When one seeks informaaims to supply. When one seeks informa-
tion on any topic of importance to him, he usually gin topic of importare supposed to know. The author of this little bulletin acknowledges that he is indebted to Mr William Saunders, the reteran gardener of the department, for help in the preparation of the bulletin. Why did not the department get Mr. Saunders or some other expert to write a full treatise to supply the want they find so urgent, and not try a little amateur bulletin of twenty-four pages that amounts to very little for the ignorant gardener. There are numerous station bulletins al ready in print far better than this, and a reprint of one of these would hare been a great deal better." This criticism seenis to
be well deserved, but it does not go far enough. In the first place, let me ask, is it the government's place to provide the farmers of the country with free text-books on gardening and fruit-growing when there are fering just the bools and guides needed at a reasonable price? Why will the government persist in running private enterprises by such unfair'competition, just as Congres
is doing a great injury to a large and important branch of the country's trade (the seed seeds free all orer the country? Legitimate seeds free all over the country? Legitimate
trade cannot compete with a big governtrade cannot compete with a big govern-
ment that charges nothing for its goods, and ment that charges nothing for its goots, and
makes the people as a whole pay the bill. This is not, or should not be, a paternal government. The help of the departnient should be directed mainly to let people stand on their own feet, not to support them. In
the second place, it seems presumptious, nay, the second place, it seems presumptious, nay,
ridiculous, for some young man with two or ridiculous, for some young man with two or three years training in some college or experiment station, and with next to no practical experience, to set himself up as teacher sufix A.M. to his name, when it has taken us old war-lorses a lifetime of practice and study to find some of these points that now serve us as guides in the same lines. And every year even now brings out new things, new short cuts to success, new suggestions. For myself I prefer writers with a long field practice. You should smell the soil in their writings. In those of the young A.M. you can only see study and training. That is not
sufficient.
T. Greiner.

## SALIENT FARM NOTES

Spring Chickens $\begin{aligned} & \text { There are thousands of } \\ & \text { spring chickens now }\end{aligned}$ the farms that are leggy, bony and light in weight. They have lived and grown up on what they could find and catch in theorchards and fields, and thousands of them will be sold just as they are. Since they left the coops with the old hens they have cost next to nothing, and if sold in their present condinot care for them, but take them at a slight discount to get others, while if they were fat they would be willing to pay a little abore market price to get them. These thin, scraggy birds are now in splendid condition for fattening. They are strong and healthy and their digestive organs are active and
capable of digesting alnost anything, and it is foolishness to put them on the markct thin and light as they are

They are now ready for finishing up, and short time, and the it can be done in a very ont like good Poland-China pigs. The best food to do this finishing with is corn, sound old or well-ripened new, and right now is the time to do the work and get rid of them. The quickest way to fatten a mature fowl is to pen or house it in a small place and give dispose of but, milk, water and grit it can dispose of; but we cannot talke these thin,
active youngsters out of the wide fields and shut them up to fatten. Instead of settling shut them up to fatten. Instead of settling
down and laying on fat they would spend down and laying on fat they would spend
their time running around their pen and their time running aroum toukir pen and pound. The way to manage these active fel lows is to begin feeding then corn three times daily, not too heavily the first three or four days, and let them run at large. Soon a day they will be on hand at the appointed time, and they should be filled up to the beak, and plenty of water and grit should be kept close by when they are fed. After filling up with corn they go straight to the water, and very often to the grit-box for a few bits to help grind the corn.

In two or three weeks they will be fat enough for market, and will be just the kind of birds buyers like to get hold of-nice, large, fat and tender, such as dress well and bring the top price in the market. As soon
as they are ready they should be sold. Don't as they are ready they showd be sold. Don' such heavily fed birds are liable to quickly become cloyed when fat and not gain an ounce, if they do not lose. Every well-informed farmer finishes up and rounds out hem He lonows that if they are taken right off the clover and marketed they are sold at a low price as "grassers." About three weeks on corn makes them solid and firm to the touch, and then they bring the top price Chickens should be treated the same was and in like manner they will bring the top price.

Crows in the Corn Yesterday a flock of thing orer a thousand, alighted in the cornfield. After they had been there about fifteen minutes I cautiously slipped among them to see what they were doing. The first one I saw was stauding on the end of an ear of hard as he could. The next was doing the
same thing. Here and there about the fiel were sentinels perched on top of the highest
stalks. In a few moinents one of these observed me anduttered a peculiar "pa-a-ah," and instantly the whole flock arose with a roar. I fired my gun among them and they left the field. Going along the rows where
they had been I found more than a thousand they had been I found more than a thousand
ears with a portion of the husk torn away ears with a portion of the husk torn away
and part of the grain, now in the nilk stage gouged out. Only those ears which stood upright were attacked, and they were torn and gouged sufficiently to let in the rain, and if we have much wet weather between now and cutting-time one fourth to one half of each of these ears will be rotten or sprouted. utes that flock remained in the field the ruincd or hadly demaid not less then the ruinca or bady damaged not less than eight counts for but little; the tearing of the husk so that the rain is admitted to the ear is where the real damage comes in. The only where the real damage comes in. The only the field, and one or two shots from a gun will do it.

Run Sweet Corn
When sweet corn is Through the nearly ripe milk-cows
will often reject the Feed-cutter will per portion of the stalks if fed to them whole. I run the stalks through a hand feed-cutter and cut them into pieces two or three inches long, and every piece is eaten. When whole stalks are fed there is always some loss through the cows pling on them. Cutting prevents all of this, pling on them. Cutting prevents all of this, cutter in a few minutes, it pays to do it. I have tried several kinds of hand-cutters and long ago decided that a strong, plain levercutter with a good hard steel knife is the best all-purplose cutter one can have about the barn. Corn-stalks, straw, hay and roots of all kinds can be cut into suitable lengths quite rapidly with it. To prevent waste by being thrown out of the mangers it is only necessary to cut to three or four inch lengths. Har, sheaf-oats, straw or stalks and all that is not eaten makes first-class bedding for absorbing the liquids. My cutter cost only three doliars, and it has paid for itself every month I have used it. Ten minutes after I began to use it I took off the "gauge" (used to regulate the length of cnt) and never put it on again, because I can do better and faster work without it. One day a heallny tramp came along and wanted something to do to load of corn-fodder, just hauled in, to threeinch lengths. He did it in thirty-five minutes. He lengths. He did it in thirty-ive minutes. He proved to be a working-man out of funds,
so I gave him his dinner and fifty cents. He said he would be glad to cut fodder every day for a dollar a day. I gave another sixty cents and his dinner to cut enough to fill a shed seren by ten feet square and six feet high, and he did it in a little over three hours, then went to town and got drunk with the will work easily and satisfactorily.

Cutting Corn $\begin{aligned} & \text { We must keep our ejes on } \\ & \text { the corn-fields if we desire }\end{aligned}$ to secure our fodder in the best condition. If one has much to cut I beliere it pays to begin cutting a little early rather than to risk having some of it get a little too ripe or dry: I would begin cutting early and put it into smaller shocks. That cut later can be into smaller shocks. That cut later can be put into full-sized shocks. Here a full-sized
shock is sixteen hills square, and if the corn shock is sixteen hills square, and if the corn
is heary it makes a rather large shock. If the corn is to be fed on the farin, cutting may begin as soon as the ear is glazed. When cut at this stage the grain will be apt to shrink a little and will probably be somewhat loose
on the cob, but its feeding value will not on the cob, but its feeding value will not
be impaired in the least. If the grain is to be be impaired in the least. If the grain is to be
sold it is best not to cut until it has hardened. sold it is best not to cut until it has hardened.
For feeding purposes the stalk is at its best just when the grain is glazed, and it is a good idea to cut at this stage all that is to be fed out at hoine.

The lower end of the stalk contains so little nutriment that it is not worth handling, above the ground, and if the growth is rank above the ground, and if the growth is rank
and the stalks large and heary, I would cut eighteen to twenty-four inches above the ground. By doing so one gets all of the stalk that is of ralue for feed, while he leaves the
hard, woody, heary part in the field. These hard, woody, heary part in the field. These long stumps can be smashed down with a heavy pole when the ground is frozen, and
turned under next spring. If one has ten to forty under next spring. If one has ten to forty acres of corn, he need not worry about cured corn-fodder is equal in feeding value to the best timothy. Fred Grixidy.

## FARM THEORY AND PRACTIC

THe Ter.Low Loorst.-This tree makes durable timber for fence-
posts, and yet it is a fairly rapid grower. I find that it pays to devote sonre bloff or other piece of rough land to the
locust, having the trees thick so that they inlocust, haring the trees thick so that they in-
cline to grow tall. The shading of the lower cline to grow tall. The shading of the lower branches canses them to die and fall off,
learing long, straight trunks. As soon as the largest trees are fit for posts they can be culled out, leaving room for the growth
of smaller stuff. Such a grove on land of little ralue mas be a source of considerable income ; or, if there be no market at hand, it prorides at least the posts needed for the farm. The grore may be started from seeds some circumstances is the tendency of the locnst to spread, especially where the roots are disturbed or the timber is cut; but this grown in thick groves do not make as longired posts as ripened trees, bnt thes outlast most other kinds of timber and are so inex-
pensire that the farmer should grow them pensire that the farmer should grow them
rather than bny the posts needed on the farm.

Living Posts.-Owners of stock-farms would find it a conrenience to have a few young trees, like the maple, growing on the lines of permanent fences. Snch trees should be set at the corners of fieldsto serve as posts
for wire fencing in the future, and a few for wire fencing in the future, and a hollows where otherwise posts wrees set in hollows where otherwise posts and on steep or rochy points, sare mones, time and rexation of spirit when a new
fence must be built. Years ago I set some fence must be built. Years ago I set some
trees on such land, and now find them a great conrenience. When used as corner posts it is best to place a piece of rail
between the wire and the body of the tree to prevent entting the bark.

Farm Lines.-There have been no more fruitful sources of lawsuits between neighbors than farm lines. Landmarks become the new owner too often is in donbt about the exact location of the line, and tronble results. The means of prevention for all
this is so simple that there is little excuse for losing the exact location of the line. Stones become displaced or lost and posts rot, but trees will stand for generations, other trees. Whenerer the location of a line between two farms is not clearly and accl-
rately marked, the owners should never rately marked, the owners should never their children or other snccessors, but should use whaterer marks remain as a guide for
setting a few line trees-one at each end of the line and an occasional one between if needed-that will fix the line for future years. It is by such simple means that
much trouble may be a rerted in this world. A ferr men take the needed pains to establish landmarks while the work can be done
with such accuracr that neither party can with such accuracy that neither party can bequeath to their heirs the conditions that make bad neighbors and costly lawsuits. There is no better landmark than a living
tree. Its character is such that we must obey Solomon's injunction, "Remore not the
ancient landmark, which thy fathers hare set."

Setting Frut-trees.-The nurseryman prefers to dispose of his stock of young trees
in the fall, and therefore urges fall-setting of trees. Some of our best orchardists advo-
cate spring-setting, although others find that they get just as good results from setting in the fall. I beliere that the farmer who
wants only a small orchard for home use wants only a small orchard for home use
does well to get his trees in the fall. pro-
rided he can trust liis nurseryman to furnish rided he can trust his nursersman to furnish spring he is too apt to neglect the whole
matter in the rush of farm-work, while in matter in the rush of farm-work, while in
the fall there is more time. He should take pride in getting one or two trees of each
rariety that does well in the locality, making sure of a succession of choice fruit
throughout summer and fall, as well as
securing a supply of winter rarieties. I securing a supply of winter rarieties. I
find it convenient to be able to do smine grafting, as the best rarieties of the neighborhood can be secured in this way. There
are rariations in all rarieties, and a scion from a tree of known quality is much sure than a tree from a nursery. The tree should
not be set much deeper than it stood in the nursery, and soil not too moist should be tramped rery ilmls apon the roots which Then some water may be giren the tre before the remainder of the soil is put bach f the ground is very dry. The top should be severely pruned, often to a switch. A
full supply of tree-fruits for a family is a luxury that is not expensire. Choice rarieties are continually coming to the farmer's notice-not norelties, bnt rarieties of known
vorth for the locality-and a few tree should be added to the home orchard ever year.

Shide-trees.-Many people expect to plant some trees near the home some day; so-called ornamental should get ont that means expense and trouble, and the work is put off to some future time. For the farm home there is no more appropriate and beautiful tree than some of the most com mon forest rarieties. A profusion of shrubbery around a house is an abomination. bery around a house is an abomination.
Shrubs should be set in a clump on a side that will not stop all circulation of air about the premises in hot weather, and some trees, trimmed high, should be used to cool the'air that enters the house. A half-dozen mapletrees set on the south side of the house, and reduced to say three in number when size demands it, add much to the comfort and appearance of a home. Snch trees when ther hare attained a good size give an air of permanency to a home, and a well-kept
sod of blue-grass beneath them makes an ideal place for rest in hot weather. Set such trees in the fall, marking their positions before remoral so that the same side may be placed toward the south. If there is danger of sunburn the first summer after setting, protect the south side of the tree with a strip of light board tied to the trunk of the tree. A few of such trees on one side of the lawn, a fer shrubs and flowers on another side, and grass kept short with a lawn-mower, make inexpensive and desirable surroundings for a farm-house. Set the trees this fall-forest rarieties-and add ornamental features as time and moner per-
mit.
DATID.

## hy seed-control stations are needed

The fact is not as widely known as it should be that the Department of Agriculture has in successful operation one of the and germinating tests of seeds now in existence. The creation of this desirable section of departmental work arose from the fact that the adulteration of seeds and the sale of those of low ritality had become so genof those of low ritality had become so gen-
eral that the total amount of losses annually eral that the total amount of losses annually
incurred was a serious tax upon the agriculincurred was a serious tax u.
tural interests of the nation.
Seed-houses of long standing and honorable reputation have been much injured by reason of the sales made by disreputable firms. Bnyers of seeds, unlike those of most commodities, hare, until the system of testing was introduced, been obliged to accept
without question the rarious kinds of seed offered for sale.
If farmers would inform themselves as to the degree of purity and vitality which highgrade seeds should have, and then insist upon the seedsman guaranteeing his seeds to hare a similar or at least a specified percentage of pure, rital seeds, they would find it expedient to supply these, and that, too, rithout adding much to the former prices. The specific guarantee system of selling seeds is now rery geluerally adopted in
European countries, and has practically driven low-grade seeds from their markets. The honest and competent seedsman will agree to sell his seeds on their real merits, and will guarantee their purity and vitality under proper restrictions as to the method of testing and competency and disinterestedness of the tester. Seedsmen who will not do this are not worthy of patronage.
The busy farmer too often fails to examine the grains, grasses, forage or garden seeds that he purchases, to determine either their freedom from foul weed-seeds or their Eerininating quality. The resnlt of such indifference on the part of the purchaser is could and should have been aroided by a lould and should hare been aroided by a
little care. All purchasers of seeds are directly interested in their actual germinating power. Numerous causes affect their ritality. They may have been immature at
the time of gathering, been improperly stored, subjected to the ravages of insects or otherwise injured. The only safe plan is to test their ritality before planting.
While practical farmers are fully aware
that the character and quality of the seed
used tends directly to govern the excellence
and rield of the product, nerertheless the purchase of seed is too often delayed until
the time for planting, when there is notime to learn its origin or to test its ritality. In based unen the indiridual merits of the sased upon the indisidual merits of the plan of purchasing seed a month or more in adrance of the season for planting is the wisest one. This would allow of a microscopic examination and time to determine by a germinating test of a giren number of
seeds what proportion of the seed would seeds
grow.
The breeders of fine stock are fully aware that the profit from the business depend largely upon such careful breeding that the special merits of any named breed will be reproduced by judicious mating. Heretofore much more attention has been given to the selection of breeding animals from which flocks and herds are to be produced than is giren to the seed of our most important crops. Neither plants nor animals are al ways exact reproductions of their immediate parents, but in the main do inherit and transmit the combined characteristics of their more remote ancestors in both male and female lines. For this reason it is o rital importance that the farmer should know as definitely as possible what are the
inherited good and bad quality of the seeds inherited good and bad quality of the seeds
he intends to plant. Withont good seeds the he intends to plant. Withont good seeds the for howerer good the cultiration, it is partly thrown away by the use of imperfect seed. As well may one expect to get a thorough bred animal from scrub stock. A plant a well as an animal mnst be both well fed and well bred to become what it should be. Pedigrees of desirable kinds and strains of seed are well worthy of record, and these should be carefnlly kept. Why should not seed be selected as much by the record as the character of the seed itself? The sowing of clean, good seed means a saring of mnch unnecessary labor. Why sow weed seeds for the privilege of eradicating them or plant those of low ritality and inferior crop? crop?
Not
growers in the lea growers in Maryland utterly failed in ob-
taining a good stand, as the germ of the taining a good stand, as the germ of the
grain had been destroyed in the feld before grain had been destroyed in the feld before the crop was threshed. The wheat was to
all appearances in prime condition when procured for seeding, and no test of its ger minating quality was deemed necessary The little time that would have been re quired to test the ritality of the seed and to determine what per cent of the grains would grow readily and produce strong plants could not hare been employed more adrantageously. While it is true that the seeds grown upon the farm under ordinary conditions pertaining to the harresting of them and their subseqnent care are rarely liable to be deficient in good germinating quality; yet in many sections of the country where sudden and extreme changes from heat to cold occur when the grain is in an unusually moist condition the germ is often greatly injured and not infrequently destroyed, notwithstanding its apparent perfect condition. The use of shrunken or small seeds should be aroided. A small or undereloped seed rarely possesses sufficient ritality to grow until the plant can assimilate the plant-food around it. Large, well-dereloped seeds are not subject to such conditions, and will continue to grow more rapidly than the others. Seed-control stations are needed as much as those now established to prevent frauds in fertilizers, and the one which is now doing such excellent work in the Depart ment of Agriculture should be duplicated in erery state in the Union without unneces sary delay. W. II. K.

## FARM AND HOUSEHOLD HELP

The question of farm and household help is one of great importance, and year by year it becomes more difficult to solve the prob When I first began on the farm I found possible to get along with rery little hired help, but as the rarious lines of industry upon the farm dereloped 1 found more help called me from home more frequently, and the correspondence which comes from ever state in the Union, requesting information state in the Union, requesting information
on this, that or some other subject, make it out of the question for nue to give to the out of the question for me to give to the
work of the farm the attention that it formerly receired.

Bnt it has been a rery difficult matter to get reliable help. With some hands seemed impossible to get work done with any degree of satisfaction, unless I went in
person and did the major portion of the person and did the major portion of the
an effort to do as little work as possible with out being discharged. Others apparently Years ago, when a farmer conld alway some one of his abeig to employ the son of during all of the neighbors to work for him during all of the sear or some portion of it,
he usually found his help pretty well he usually found his help pretty well edncated in all manner of farm-work, and
willing and anxious to do his work in the willing and anxious to do his work in the boys the farmer has are apt to go to the city to find employment, or if not, they are giren an opportunity to work the home farm on shares, and this the man who must employ farm help is compelled to look for help among that class who do not possess enongh ambition to do business for themselres. It is easy to see that if a man does not hare any ambition to do business for himself that he is liable to be still less ambitious er is lhable the or others, and the labor performed by snch promise" manner.
I hare been fortunate in employing my neighbors' sons quite frequently, and they are almost inrariably been rery satisfac arailable fate years, as neighbors boys scarce, I hare been compelled to depend scarce, I hare been compelled to depend more upon strangers. In some instances
these strangers hare been exceptionally these strangers hare been exceptionally
good help, but in many instances they hare good help, but in many instances they hare been rery disappointing. Their chief object appears to be to get their boarding and lodging and draw their wages.
About the same conditions govern honsehold help as gorern farm help, with the exception that help for the house is much more difficult to find and more apt to be satisfactory when found. Until the last three years I could usually get nelghbors' daughters, and these were the performance of all kinds of honsehold duties. But neighbors' daughters available a 1 far between, and I hare found it quite a task to find help. One neighbor's danghter, who was with as three years, became like one of my own children, and when getting presents for the children lyyrtle was remembered along with the rest. She had learned our system of doing household work. and ererything passed along nicely, and we had about come to think she would stay with us until she married and went to a home of her own. But her mother went into the poultry bnsiness and decided she would make use of her dunghter at home. Then I began a search or another girl, but it was weeks before I ound one. I told Mrs. S. one evening, after searching all day for a girl, that I had called upon more young ladies in one week than I had in all my single life. Finally a girl was found who promised to come. She proved to be a perfect jewel. She remained with is nine months, by which time she had s nine morn, she had in her life. But the fatal day came Inst time iner life. But o let her go home to help her stepmother ample clothing to last for a time, decided to keep her at home, and did so until she needed more clothing, when they permitted her to go ont for a few weeks at a time.
Wouldn't it be a good thing to import a ship-load of peasant girls from Europe? Many thousands of the poorer classes are compelled to go out and toil early and late at rery heary labor for rery small pay. Were they in America they could get much better wages, good homes, benefits of society and some toil and not find life so full of burdenof families in this locality that would gire good homes and wages to cood girls. Should this article be read by any girl or woman who wants to gire her faithful services in return for a permanent home and good wage, let her pack her trunk and come to Logan countr; Ohio. Of conrse, she should bring good testimonials as to ability and character.

Johi L. Shawiver.

## CATCH THEM BY THE HEAD

Set your steel trap in a corn-sack. Roll in the mouth of the sack until a space is left just large enough to contain the trap. The rat sees the ears of corn through the trap, and in reaching for them strikes the pedal witl his nose. The trap is thus sprung so as to catch hinn just behind the ears, and his death is instantaneous. This is more humane than catcling him by the leg and causing him to sufer all gigh. I bay I beliere it will prore successful in most cases. By the

## NOTES FROM GARDEN AND FIELD rds amernes, - For the first tin

Bsince I have the June-berry under cultiration I have been able to sare some
of the fruit for canning. Heretofore the birds have taken the berries about as fast as they ripened. I am quite fond of the berry, but find the birds are not less so, and I cannot keep them away. It is not the mischief The depredators are mostly rob ins, and they take the berries pretty fast. I notice that a couple of barn-cats have also found out that the birds are frequent vis itors in the June-berry patch, and they stay time, watching for a chance to get hold of a winged and feathered rictim as a welcome change from their usual diet, which consists of rats and mice. I do not interfere with
either cat or bird, preferring to rely on the regulations of nature, which are calculated to maintain the proper balance. I like the feathered tribe well enough to be willing to
divide my berries with them. The only divide iny berries with them. The only thing that I object to is to hare them take all the berries. There is only one way to enough so that the birds can take all they want and yet leare some for me. It is only since my* bnshes (of which I hare sereral dozen) are quite large and bear a good deal if the cats kill a few of the birds it helps to if the cats kill a few of the birds it helps to
increase my share. Most of the sweet cherries hereabouts were also taken by robins, cedar-birds, etc. We are sometimes tempted to assist the cats in maintaining that proper
equilibrium in nature which secures to us equilibrium in nature which secures to us
our share of the fruit; but we do uot like to our share of the fruit; but we do not like to
encourage our youngsters in using fire-arms on living creatures, so things are allowed to take their own course. I am not shedding tears orer the poor birds that lose their lives by their natural enemies. Squirrels, crows. owls, hawks, etc., may be a blessing eren as bird-eaters. They destroy the surthat proper balance I spoke of. Their work tends to gire to us more of the cherries which the small birds have kept free from worms.

The June-berri.-It hardly admits of any doubt that the June-berry could be
grown for profit. Extensire planting disgrown for profit. Extensire planting dis-
poses of the danger from bird depredations. In a patch of even a feí hundred large bushes we will not miss what the birds take. The plant is a never-failing and very prolifie producer of berries. The fruit of selected plants is about as large as a sinall cherry.
One trouble is their uneren ripening. It takes many pickings, and gives the birds too much of a chance by prolonging the season. In this respect the June-berry is just like the Crandall currant. The latter has prored during the past few years a free producer of
large berries. These when ripe (jet-black) large berries. These when ripe (jet-black)
hare a flaror reininding one of the cultirated common black currant. The birds, howerer, eem to like the Crandall flaror. It least they seem to take the berries just about as
fast as these turn black. My bushes were again weighted down with a mass of fruit. I do not complain any more about their being barren as I did some years ago. When
the first berries were ripening, and I saw how the plants were loaded down, I felt quite sure of having some to can this time. disappointment as in former seasons. When I went to the patch, expecting to find lots of ripe berries, the bushes were nearly bare of fruit. The birds had enjoyed a feast right along. A portion of my June-berries when I picked them were not ret fully ripe. I
see plainly that if I want any Crandall currants I must gather them a little green or plant a lot more bushes. I was quite anxious to test the flaror of the cooked or
canned Crandall, but shall hare to wait at canned Crandall, but shall hare to wait at I canned as they were; another portion I mixed with our common red currants, All
look well in the cans. After awhile I shall know how they taste. The fruit of the Juneberry in its general characteristics seems to resemble the high-bush huckleberry more than any other fruit. It has its size and general appearance. It also has that mild and unobtrusive flaror, and I believe it would take well in market if freely offered. The
bush, like that of the Crandall currant, is easi1 y increased by dirision of the rootstock. It also responds freely to good culture. All the plants I now hare in $m y$ gardell are the result of dividing a single large plant that had stood in sod and neglect for a number
young plants in good garden soil: I am in
hopes of seeing the plants grow so large that hopes of seeing the plants grow so large that
we will have to gather the fruit with ladders.
dimphed Heckleberries- - A siugle tands in a sodded spot in my uarden has been repeatedly mored about, seemed to stand in the way in its previous situations. It has thrired and borne fruit ear after year. The fruit seems to ripen more evenly (at one time) than that of the June-berry or Crandall currant. I might get it all in two or three pickings. The clusters were large and numerous. I be
liere that it is much more easily and cheaply gathered than the other fruits mentioned herein. The ouly thing that I ans in doubt about is whether the bush is as easily grown and propagated as the June-berry. I rather think it is or can be made to. But what a shame to hare neglected so good a frnit so long. I am going to turn over a new leaf. The plant, now quite large, will at once be taken up, divided and set in good garden soil to receire as good treatment as I now give to the June-berry. There is no doubt in my mind that the huckleberry deserves in my mind that the huckleberry deserves
more attention, and that it can be subjected to cultiration with as much profit to the grower as any other of our common fruits I would like to hear from those of our read ers who, inay hare huckleberry-plants under cultivation. I would also like to secure some plants, especially if they are of selected strains. Why should we not be able to pro duce huckleberries as large as cherries They, are much more easily grown, besides being so much more raluable.

Gathering Fruit.-We are fortunate ellough to have a basket-maker in this ricinity. When we need baskets, all we have to do is to tell him what we want, and he will soon turn out the goods as ordered. He has been making a lot of half-bushel baskets for me, rather strong and with strong landles, and these I use in gathering my pears. They also come handy for picking apples, I intend to barrel the fruit. When the apples are found only scatteringly on the trees I prefer to shake them off into a cauras held underneath by four persons. It goes faster. I always do this when I sell the apples to canners by weight. Some people use a comnion grain-bag fastened to the shoulder. I always instruct my pickers to sort the fruit as they pick it. There is no use in putting worthless culls into the basket or sack. It takes more time and effort to carry this poor stuff around than it is worth. My instructions are to drop it to the ground. Then all the fruit in the baske can go in with the salable portion. If rea sonable care is exercised iu looking the frui over as it is slowly poured from the picking baskets into the crates or barrels the fruit in the packages on inspection will pass muster and please the castomer. This is not a season of orersupply in good fruits. All fruit offered in our markets should bring a good price. But the year can easily be made a season of oversupply of poor fruit. Te hare plenty of apples that are hardly fit for cider-making. If we should put that stuff and other fruits of like quatity into be demoralized to an extent as nerer before. In dhort, if we do not realize a profit on the In short, if we do not realize a profit on the
little good fruit that we hare this year, the fault will only lie with the greed of the the fault will only lie with the greed of the grower. A person who once buys a basket
of peaches as they are brought into the Buffalo markets from the vicinity of Ontario lake, in this county, and pays a good price for the same on the strength of the extra large and fine specimens which the grower has put on top of the basket, gets thoroughly disgusted when he empties the basket out at home and finds nothing but a lot of gnarly little bits of green things fit only for the dump-pile (but not even for hogs) iu the bot tom of the basket. I hare had that experience myself, and have nerer bought another basket from that ricinity unless it was put up right under my personal inspection Fruit-growers should learn that honesty is by a good deal the best and most profitable policy.
T. Greiner.

## A PRUNING-BOAT

The pruning-boat is a handy, home-made necessity I noticed in a Washington orchara. It is used for hauling away the limbs and twigs cut from the fruit-trees to a conrenient place, where they are burned. The boat is nothing more than a sled eight by weive feet, with a platform of inch boards to receive the prunings. Three or four inen with pruning-knives and saws cut the surplus limbs from two rows of trees at the
which a pair of horses is hitched. When a big brrsh-heap is made the branches are
drawn away to the fire and consumed. This assists in ridding the orchard of insects and disease gerns, and sares the work of collect

ing the prunings after an orchard has been trimmed. The boat niay also be used as a barn-yard manure-sled, and for hauling
aud corn-fodder to the feeding-yards.

## VINEGAR FROM WATERMELONS

 It is well known that the best vinegar i perhaps the best snbstitute is made from wine. In some families the home supply (and good vinegar it often is) is made from all sorts of fruit scraps, preserves and other sugary matter upon the premises. In many grown there is frequently a great waste from undersized, misshapen and overripe spec imens that cannot be sent to market, to sanothing of those lost when the market i orerstocked. In one of these regions a pro gressive man, knowing that rinegar is derived from alcohol, and alcohol froms sugar by fermentation, determined to put his surplus melon crop to this use. After get-
ting the juice of a number of melons he added yeast to it in order to convert the sngar into alcohol, and then added "mother of vinegar," which was done by pouring in some good new vinegar. In due time he obtained a fragrant rinegar of good color and containing a higher percentage of acetic acid than is usually found in commercial acinegar.
The success of this experiment suggests a profitable means of disposing of the surplus stock of melons that cannot be sent to market. It seems likely that this should be more profitable than the practice of feeding


## INQUIRIES ANSWERED

Reseting Red Raspberries.-W. W., St ting so long as they grow and produce well. Some varieties, like the old Turner, will often fruit well for ten years in good situations, while others will need resetting in four or five years.

## Planting Blackberry-bushes.-T. P. D. Harmanville, Pa. You had probably better

 plant your blackberry-plants in the spring but may be done in autumn if the work is done with care. See reply and similar inquiry in this issueas to precautions necessary for suceess with fall setting.
Planting Blackberries.-J. J., Gabriel, Kan. Blackberries may be successfully set in the aurumn if the soil is moist enough to work well, aud if on the approach of winter each plant is of some sort. I like to set them in autumn, but beginners are apt to fail to do the work success
fully. fully.
Pear-trees From Sprouts.-J. D., Knox couuty, Mo. While it is possible to grow pear
 uncertain a method, so most of our pears are
grovn by grafting or budding on seedlings. The keiuer par, hown is or sher tiings in the southern states. Where a good times be saved to advantage if it is from a graftroot, and uot from the seedliug-root.
Strawberry Culture.-E. J. F., Collins excellent crops of fruit if they are strong and vigorous. By cutting off the runners you develop vigorous. By cutting off the runners you develop
very strong plants, and some rarieties when so rery trong plants, and sot as a rule the crop is somewhat less from an equal area of them thall from matted rows, but it is generally of better
quality. There is little choice as to farm manures quality. There is little ehoice as to farm manures
for strawberries. Perhaps half-rotted cow manure would be preferred by many good
growers.

## Forest-tree Seedlings.-F. E. T. Water-

ville, Kan. The seed of soft-maple and clm should
be gathered as soon as they fall (June) and be be gathered as soon as they fall (June) and be
sown at once in good land in rows about turce sown at once in good land in rows about thrce,
feet apart, sowing about fifty seeds to the foot,
and about balf as deep in the case of the elm.
box-elder and ash seed should be box-elder and ash seed should be gathered in
autuunu or during carly winter, kept in a cool, dry autuulu or duriny carly winter, kept in a cool, dry
sbed covered with hay ;or better yet. when suall quantities are gathered, kept on the hard, dry spring, as recomulullded for soft-maple.
Planing Redl Raspherriese. I. C. H.,
Easton, Minn. Hed raspberries may be safely
Her Easton, Minn. Red raspberries may be safely
moved at any time duriug autumn provided the
soil is moist enough to work well, but especial care should be taken to wress the soll, but ifmply yover
tbe roots. In your section the work should be
done the latn done the latter part of September or the first half of October. On the approacb of winter they should
be banked up a little, and each mill covered with be banked up a little, and each hill covered with
a forkful of mulch. Treated iin this way they will not bear a good crop next scason, but will do far
better thau if moved in the apring. Of coursc, if
you want fruit next season, the tops also sbould
 mer fronl varions causes. the chief of wbich in
your section is due to winter-killing this season. Last winter was one of the worst known in parts of Iowa, Illinois and Indiana in its effect on plant growtb, and many trees bave died out ousis year
from injuries received at that time. But in some sections trees die froun being timured by borers.
For the first case there is no remedy; in the second case a clase watch for the borerer and their
timely removal will prevent serious in timely removal will prevent serious injury. Fire-
blight also appears nearly every summer and kills out the new growth ouly, and sometimes large branches or the whole tree. Tbe proper brancbes early. It may be largely prevented br disease, and ly giving a good cir culation of air.
Nothing will be gained by putting on air-slaked limenow. Nursery-grown Forestotrees.-W. H. D. perior to forest-grown trees only because of their having been grown in such a way that their roots are in a smaller space and more easily moved and the tops are better balanced. However, there is no trouble about successfully moving pines, etc., from the woods if the work is well done. The
chief causes of failure in doing this is due to attempting trees of the size, and to allowing the roots to get dry. It is safest not to try to move anything over three feet high, and smaller in the spring, before or just as grourth stants, and in the spring, before or just as growth starts, and
much pains should be takeu to prevent their roots from even appearing to be dry. They should be dug and immediately covered with wet moss or a uret cloth. I think you will do best with white and Norway pine and white and Norrway spruce.
These may all be found in the woods of Wisconsin. except Norway spluce, which is from Europe. The hemlock is apt to fail in your section except
ou moist soil. The red cedar is the hardiest ever ou moist soil. The red cedar is the hardiest ever-

Apple-lear Rust.-MI. P., Springdale, Ark. The appl--leaf you send is injured by a well-known
disease of the apple known by the name of appledisease of the apple known by the name of apple
leaf rust (Gymnosporangium macropus). It is very injurious to some varieties of the apple, causing the leaves to become covered with rust like spots, and finally destroy ing them. The life-
bistory of this disease is very pectliar. The bistory of this disease is rery pecuiar. The
spores produced by the rust on the apple will not spores producer by the rust on the apple will not
grow on the apple, but on the red cedar, where grow on the apple, hut on tbe red cedar, where
they produce the swellings and the scarlet pulpy they produce the eswellings and the scarlet pulpy produce spores whico grow on the apple-trees. as several hittle openings occur on the under side of the leaf, with a row of bristles turned back around the edges which can be readily seen when examined with a low-power pocket-lens. This disease cau only occur where red cedar is near by. Some
varieties are not much subject to it, aud it may be largely avoided by growing only those that be largely avoided by growing only those tbat is not very numerous in the neighborhood it may sometimes be practicable to stop the disease by Pear-iree of Weeping-willow Growth. Vermont Beauty pear-tree about five years old. The body is about fou inches in diameter, and it is about twenty feet high. It has never borue or
bloomed. I have been looking forward to its bearing with anxiety, and admire the tree and
location, but, alas. I am in trouble over it. The branches have grown so long. and it has run up at the top so high that the limbs seem weak and
have bent over like a weeping-willow tree, which inakes it unsightly, and the limbs or branches are in the way in passing near it, though it has been
pruned up high. I wish some one would be kind enough to tell me what to clo witb it to make it grow right."
REPLI:-Your peap-tree has a form peculiar to itself like all other varieties of pear. and you will
have hard work to make an upright tree of it, for have hard work to make an upright tree of it, for
it is not that kind. If. however, it is too sprawliug, severe pruning in early spring will make it start a strong. quick growth by which its foriu
may be somewhat chauged. But do not allow too many shoots to start. Jinch out the weak ones It should be more generaliy known that there are hardly two varieties of pear, apple and other fruits that are alike in form of tree. Some are
upright growers and what the nurserymen call ideal trees, while others are sprawling growers. and tbe nurserymen are puzzled to make them of
salable shape. And yet some of the crooked salable shape. And yet some of the crooked
growers produce most desirable fruit. The degrowers produce most desirable fruit. The de-
mand for straight, upright trees of all killds cannot be met by the nurserymen, and for that


NATURAL METHODS OF INCUBATION

THE usual mistake in artificial incubation with some is economy by
the saving of necessary labor. It mprove be claimed that it is impossible Then we apply the word "nature" to animal and vegetable life in a strict sense it means contention, strife, war and destruction. grasses will make their appearance. One variety after another will be smothered ont, until one of the strongest rarieties will prerail. Had the human family always lived up to the laws of health, we would no doubt lire to a much greater age than we do now petites and the inclination of their thoughts. It is their nature to do so, and it shortens
their lives. It is the nature of wild animals to destroy one another. Regardless of the natural enemies of a hen (rermin), a hen appears at times to have no idea of cleanliness and health. If she exhibits her nature break every forg her nest, though she may in the muss on the broken shells as though nothing inad happened. The outside eggs the nest; she never removes unsound eggs and is more or less careless about turning them. Thongh she may be persistent in her chicks by her mode of incubation. Birds can be improved by artificial incubation by observing the laws of science and philosophy With the use of incnbators and brooders supplants the instinct of the bird which has been domesticated. Economy, or the saring artificial in responsible for many failures in artificial incubation.

## yellow legs and skin

The preference in some markets is for a appears fat; but in England the Dorking, which while in France the other dark-legged fowls are given the preference. But the English and French hare a guish the Dorking and Houdan, even when dressed and hung up for sale. It is that both will know that when a carcass has the extra toe on each foot that the dead bird was a Dorking or Houdan, or a cross therefrom; and as both breeds possess compact bodies for such and pay but little attention to the the dark legs of the Hondan seem to condemn it as inferior, and the same is true of the Langshan, which has dark legs and perior to them for the table. Not only are Houdan cock and Langshan hen makes a good layer-one that is not easily surpassed.
The best mode of getting orer the difficulty Plymouth Rock or Wyandotte, which will gire the yellow legs and skin to the chicks
and combine the good qualities of all the breeds used. Do not cross any breeds, howcarries one orer to the use of mixed breeds
and common fowls altogether.


NON.SITTING BREEDS A pen composed of a number of White Leghorns, Black Minoreas, Langshans and some crosses were fed a morning mash of bran and ground corn and oats, with a liberal supply of meat scraps. At night they iven all they, wheat and oats. They wer fatten them without placing them in the danger of becoming overfat. The first effect was heavy laying, and then followed the with the Lancshans, then with the Minore nd lastly the Leghorns. In the Minoreas, nd lastly the Leghorns. In each case the birds were rery fat. It might also be said with very little hope for the correctness of he theory that there were no non-sitters, but upon weighing those birds that did not show a tendency to sit a loss of weight was fonnd hen that wished to sit weighed seren pounds, while the weight of those that showed no desire to incubate did not average over six pounds. Of course there may be exceptions all rules, but the fact has been fairly proven that, taken as a rnle, a hen only gets the deire to sit when she has laid a certain numer of eggs and in the meantime has take The experiment certainly demonstrates the act that there is no such thing as an absoutely non-sitting breed, but that all hens can be brough

## THE BREEDERS OF PURE BREEDS

 The common supposition is that "fancy" this is a delusion, as no class of persons is more honorable than the breeders, of ponitry The majority of the complaints come from those who do not understand the points ofthe breeds, and who also expect eggs to hatch under all conditions simply because the prices paid were above those asked in the stores,
Jany purchasers do not know that chicks from black parents often have white on them at first, and the breeder is at once classed as a swindler should such occur, while other are not aware of the fact that out of every efit for the show-room. The breeders hare o many obstacles to contend against that many of them will not sell eggs at all, and swindler is detected and exposed.
destroying vermin
Do not try to poison rats until you first bait them. To ao so place choice food where to be suspicious and wil anticipate the reg. ular time for feeding. After they have found out that you are their best friend, go to a Give them a double mess of food with the phosphorous paste well mixed in, and the chances are that you will kill every one in fought at all times, as they multiply rapid ${ }^{5}$, and delay is in their favor.

NOTES FROM CORRESPONDENCE STRETCHITG Poultry-nettivg.-Common
poultry-netting needs no special tool to stretch it. poultry-netting needs no special tool to stretch it. I like small posts, set firmly, with board at bot-
tom. Drive a nail in each post, on a line and as high rom the board as the width of the netting. Hang the netting on the nails, fasten one end and work from it. Straighten with the hands, pull the top
wire straight from post to post if required with a small stick through the netting, and pry on a post. whe ned moch but patience. Then pull down make it smooth and flat.

Profit for Four Months-I have been a reader of your valuable paper for many years, and
have rcad it all with interest, especlally the have rcad it all with interest, especially the poultry. I often see accounts of profits made of in a record of my chicken-egg profit also of last

Lareh 486 I got 406 eggs; li February 295 ; enty-iive cents a dozen. My yeet proft was $\$ 20.07$
[coavcluded 0 .

 The N. K. Fairbank Company $\begin{array}{cc}\text { CHICAGO } & \text { ST. LOUIS } \\ \text { NEW YORK } & \text { BOSTON }\end{array}$
 De Laval Alpha "Baby̆" Cream Separators were
frst and hare ever been
kept best and





 chines for 1899. Send for
nerr Canatalogue contanining
antupoto
information THE DE LAVAL SEPARATOR CO.

 FARMERS-Send me your name and ad dress together with the name of the whea you grew this year and how many acres you Will sow this fall, and I will send you some samples of new wheat and a proposition
supply your seed. Don't neglect this. Men tion this paper

Seedsman, Indianapolis, Ind.


Poultrymen's Supplies of all kind. Catalogua free


Largest manufacturers of Steel Wagon Wheels and Handy Truck Wagons in
America. Guaranteed suAmerica. Guaranteed su-
perior to any other make

Metal Wheelco. havana, illino


YOU CAN'T READ


## [CONTINLED FROM SIXTH PAGE]

 Last year I had one turkey-hen, and raised twentyturkeys. I sold eighteen of them, and their weight ranged from twelve to
net profit was $\$ 26.35$.
Kilmarnock, Virginia.
Cost of Plynouth Roces.- I wish to state for the henefit of suhscrihers that my Plymouth
Rocks, Barred, White and Buff, and my feeding hocks, Barred, White and Buff, and my feeding eight chickens, as follows: Bran, 200 pounds, at sixty cents, 81.20 ; wheat-screenings, 400 pounds
at fifty cents, 82 ; wheat, chopped, 50 pounds at fifty cents, fifty cents; corn, chopped, 80 pounds at fifty cents, fifty ceuts; hone, cut, 100 pounds
$81.50, \$ 1.50$; oyster-shell, crushed, 100 pounds \$1.25. $\$ 1.25$; two hushels of rye at sixty cents, $\$ 1.20$; making a total of $\$ 8.95$, with six weeks feed on hand. I have a very great success with eggs. I for fifty days in my numher of chickens. Louisa, Ky.
H. G.

Poultrix-netring.-I will answer H. J. G. on putting up poultry-netting, and will say that the put your posts eight feet apart, then nail stringers (I use common fencing hoards), one at the top and one at the hottom, to correspond with the width
of the netting. This heing done you will stretch the of the netting. This heing done you will stretch the
upper cahle and staple every twelve inches. Next you will streteh the lower cahle. At this point you will need more tools. Have your blacksmith make long, out of three-eighth-inch iron. You will then need a three-eighth-inch rod two feet long for a the rod through the link and under the lower stringer and press down to the proper place,
heing careful not to draw the mesh out of shape. Take short hitches and staple well and your fence will not buckle. For chickens place one or two
smooth wires on posts over this. U. G.S. High Point, MIo.
Two-xears' Record.-Seeing several rêports in the Farji and Fireside of receipts from
poultry-raising I give my experience for the two poultry-raising I give iny experience for the two
years of 1889 and 1890 . On January 1, 1889, I hegan with twenty-four hens and three roosters, Plymouth Rocks (I find them the hest for general hought a two-hundred-egg incuhator, and made a at $\$ 12$. My expenses for 1889 besides those named were $\$ 40.02$. My receipts from all sources in the
poultry line were $\$ 70.13$, leaving me in cleht $\$ 4.7$. But deducting the cost of incuhator and hrooder I think I did fairly well, as I gained experience that
was worth considerable, as the account of 1890 will was worth considerahle, as the account of 18 also hought a small stove, to be used in the husiless, at a cost of $\$ 3.50$, and thirty-five January 1 , 1890. I ralued my stock at $\$ 26$. I
kept no record of the number, as I usually at one dollar. There were prohahly eighty-four hens and roosters and four turkeys as the year before. The expenses in 1890 amounted to $\$ 34.71$,
including the $\$ 4.74$ brought forward from 1889 . including the $\$ 4 . i 4$ brought forward from 1889 .
The receipts were $\$ 124.66$, leaving me a handsome profit of $\$ 89.95$. The poultry had free rauge, pickfing up a large part of their living. I charged the credit at ruling prices for eversthing used except heen ahle to do so well since.

## Rosedale, Ill.

## INQUIRIES ANSWERED

## Picking Broilers.-A. T., Glohe Village

 picking chicks instead of picking them dry." Replx:-Scald them, and after the feathers areremoved immerse the carcasses in ice-cold water for or five hours, or longer.
Chicks Dying.-C. MI., White Hall, Mich., ahout three weeks old to die of no noticeahle disease. They were fed according to instructions nd were kept clean. Can you assign a cause?" The loss is prohahly due to lice, mainly the large ice on the head aud necks
Preserving Meat.-E. E. S., Canon Clity, of several hundred pounds of meat so as to feed it Reple:-Put the meat in a hox having a top (an old trunk is excellent), and for every twenty
pounds of meat hurn one half an ounce of sulphur, closing the lid and allowing it to remain closed half an hour. The meat will keep several months. Overfeeding.-L. R.., Stever, N. J.. writes:
"What ails my hens? They go on the nest, stay long enough to lay, come off and cackle, but do
not lay. I have looked for lice, but cannot find any. Some droop around and appear sick. They
are in good condition, and ruw at large. I have are in good condition, and ruw at large. I have
not lost any this year, but last year I lost half Replr: - The fowls are prohahly overfed and in Incubators.-M. MI. B., Long Pine, Neh.,
writes: "1. Are incuhators a success? 2. Which kind is preferred-hot water or hot air? 3. Would
it he advisable to have the brooder comhined
with the incuhator? suitable for chicks for a short time?"
Replri:-1. Yes. 2. There is no preference separate. t. If well lighterl and dry it will answe for a week or ten days, but
proper place to raise chleks.

## THE BOY ON THE FARM

WHEX one pieks up an agricultura paper he will always find some ter horse, cow, sheep raise a bet but seldom cau he, find anything that tells, how to better the condition of that animal found on every farm that is stocked as it should be-the boy. Isn't the boy entitled to as much attention and consideration as the horse or pig?
The farmer's son has for years been the butt of newspaper jokes, and when any one wants to make fun of another fellow he calls him "farmer" or tells him he doesn't know enough to be a farner. Many people honestly think that the fact of the boy having passed think that the fact of the boy having passed
the first years of his life on a farm has dulled the first years of his life on a farm has dulled his intellect and caused him.to be inferior in
every way to the boy of every other station.
every way to the boy of every other station.
Some may say that I anı putting the matter Some may say that I ann putting the matter
too strongly, but I believe it is no exaggeratoo strongly, but I befieve it is no that more fun is made of the farmer and his son than any other class in the world. No matter how unjust this is, it
naturally has its effect upon the boy of the farn. Every boy has pride, although he may try to make people think he does not care, and no boy likes to feel that he is inferior to all otler boys. As a general rule, the boys either feel that they are handicapped by an life which they cannot overcome, or they deternine to get off the farm as soon as they find it convenient, no matter where they go what they do.
Both classes of boys have taken the view which is entirely wrong. There are reasons, the very best, why no farmer's son should adopt either of these courses. I will point out to the boy of the farm specific things he
can do to better his condition, to show the people that the generally accepted idea is wrong, and nake the boy better satisfied with himself and his position in life.
hours for so small wages as do those who work on farms. This has been another great incentive of the desire of young men to get away from the farms; but if they will in-
restigate all sides of the question they will find that the real condition is not as it appears to one who accepts general reports without study and comparison.
With business conditions as they are today, only those with business or intellectual ability abore the arerage can command large large sums of money for our work, and when we fairly understand the condition we oftell find our present situation much better in comparison than we had before supposed.

I shall not undertake to show how the boy can get off the farm into some other business, but I will suggest ways by which, while
working on the farm, he may improve himself so that he will feel that he is the equal of other boys in other business, and will be preparing himself so that he may develop What natural ability he has, and make the he has that in him which makes him fitted for some other business or some profession, when the right time comes le can begin his specific preparation for his new career upon the foundation gained while on the farm. And there are many reasons why the farm is the best place for the boy in the first years of his life.
My suggestions will be to the boys direct things for them to do themselves, and not suggestions to parents. Boys like to get things first hand, and I want to talk directly to them through the columns of a paper read by the farmer and his whole family

Gene Z. Fizzle.

## A PROMINENT NEGRO AGRICULTURIST

South Carolina is truly proud of Professor J. W. Hoffman, of the State Colored College, Orangeburg, S. C. He received his education in some of the leading universities of this country. Professor Hoffman is recognized in this country and in Europe as one of the foremost negro scientists of the world. His specialty is along the lines of agricultural biology and dairying. He is a very close student and a born teacher. He first came before the scientific public in 1891, by reading a paper before the Michigan Biological Society at its meeting in Abion, Mich. He was the first uegro to iutroduce among his was the first uegro to iutroduce among his people of the south the study of scientific
dairying. He introduced into the South the methods of ripening cream by inoculating it with selected bacteria. He was the first scientist, while a professor at Tuskegec Institute, of Alabama, to report to the
United States Departuent of Agriculture the appearance ou the fruit-trees of the
south of the san Jose scale, and to trace out states
He was appointed, while in Alabaua, a "special agent" by the United States Department of Agricuture, to make a careful kind, quality and quantity" of the food kind. by the negroes of the "great black belt of the South." This work required much time and study, and was published by the United States Department of Agriculture as classed among the important dietetic studies classed among the important dietetic
of the different races of the world.
Professor Hoffman has delivered addresse before learned societies in the United States and Canada, and is honored by membership in many associations both in this country
and Europe. Professor Hofiman is doing a great work by solving the so-called "negro problem" in the very practical way of teach ing the youths of his race the real value of dairying. His talks along agricultural lines are published in the leading papers of this great South, and these "talks" are read by both white and colored farmers. In South Carolina he has given new life to practical people of the South feel proud of him, as the future of the south will depeud greatly upon the training of her people along indus trial lines, and especially in agriculture as urged by Professor Hoffman.


## SWEET CLOVER

The weed laws of several of the states, particularly those of Ohio, condemn swee clover (Melilotus alba) and impose penaltie acquaintance with this plant leads me to the conclusion that it does not merit its bad name, but on the other hand deserres to be classed with our useful plants. In my ex or fields, and when it does appear there i very easy to kill. It confines itself almos soils, being especially thrifty upon soil that other plants find difficulty in possessing. The northern beaches and the clay bluffs o Lake Erie (Canadian side) are for mile hundreds of pouuds of honey to myriads hundreds of pouuds of honey to myriads eight weeks each summer. The banks and borderiug hillsides of mauy of our streams are clothed abur our best honey-plants, the quality produced being almost equal to the best white-clover
houey.
Recently, however, it has been discovered to have other uses. From casual observa tion it was supposed to possess the power of improving heavy soils, and after two-years experiment this was found to be the case When the plants have produced seed the roots, which descend to a depth of thre feet or more, die and soon decay, leaving shrunken, spongy substance in their places Through these partly filled tubes the surface water drains away into the deep subsoil leaving the surface well drained even after a lieary rainfall.
In the experiments, which were conducted upon uniform soil, the different plots showed muddy and wet to be walked upon, water in pools upon the surface; where pea-vine grew the previous year, no water on the surface, but the soil very wet and sticky where sweet clover had grown one year, soil enough for the grown two years (long soil), the land compared favorably with plot that had been tile-drained.
This plant, being a legume aud provided from the air, and by the decay of these underground parts and the tops, if they also be turned under, can materially improve the fertility of the soil in which it grows.
Abundant honey-producer and a good soi renovator and iniprover-surely attributes enough to elevate it above the weeds.

## EXTRACTS FROM CORRESPONDENCE

From Colorido.-Mesa comity is a fine frui abundance of water for irrigating. A $\$ \$ 50,000$ abundance of water for irrigating. sand acres of heets are under cultivation, and the talked of to have ten thousand acres of beet under cultivation next year. I think this the hest county in the United States for one thousand tionally healthfing.

ENAMELINE
STOVE FOUMSB
PASTE,CAKE


Twice as much used as of any other Srove Polish on earth.
-1 EXPELLO


Expello Ointment $=$
What Alls Your Horse?

100,000 FREE TREATMENTS

\$3000 OUR PIASA BIRD SULKY


WEIL Rame In




OPIUM =ivewiwain
BICYCLE FREE OR CASH TOANY ONE

COE'S ECZEMA CURE Tafge eamplo maned free.

## Ad QUERIIES eid

$\qquad$

Getting Rid of Stumps.-E. C. P., Hanover, out stumps. Various thing aave been recommended, but they do not give satisfaction. Use a
good stump-puller, or hlow out the stumps with good stump-puller, or hlow out the stumps with
dynamite or other explosives made for the pur-
Canning Corn.-R. J. H., Winthrop, Minn., writes: "You say, 'Cut the corn from the cob,
and fill glass cans, jamming it down until the and fill glass cans, jamming it down until the
milk comes out and you cannot get more corn in the can.' How do you manage to press the corn
down after it is in the can so that the milk comes out?" Repli:- That is easy. Take a spoon or
pestle, and press down the corn in the can.
Onion-sets.-E. E., Waupaca countr, Wis., Writes: "Some time ago we were promised an ment of onion-sets, generally called 'hottom-sets.' instead of growing into a larger onion the second season. Will some one explain?"
REpLy By T. Greiver:-The only difference is in the size of the hottom-sets. If they are large they are liable to produce seed-stalks instead of large bulhs. The best sets are small ones of less than common marble size. Or you can raise
plants from seed in the greenhouse duning winter, and transplant to open ground in early spring. These never go to seed.

## VETERINARY

CONDUCTED BY DR. H. J. DETMERS


Garget and Rloody Milk.-E. V. C., Bel-
view, Minn., and A. F. K., Graydon, W. Va. Please consult Faris Ayd Fireside, August 1st. Tumor in the Sheath of a Dog.-H. C.
W., Mansfield, Mass. If the tumor is in the sheath get a veterinarian; let him narcotize the dog with a morphine injection (chloroform is
somewhat dangerous to dogs) and then excise the tumor, which he can do inside of five minutes.
The dog will never know that anything has happened.
Gives Milk From Only Three Teats.-
W. J. L., Middleton, Wis. If your heifer gives W. J. L., Middleton, Wis. If your heifer gives
milk from only three teats, and the fourth one is harren or dry, leave it alone and do not prick and
irritate it with darning-needles or with any other irritate lt with darning-needles or with any other
tools, for if you do the probability is that the teat
and quarter will become inflamed, and will cause and quarter will become inflamed, and will cause
Chronic Diarrhea.-S. H. W., Keosauqua, Iowa. Chronie diarrhea may have various dif-
ferent causes, and without further information in regard to your case it is impossible to give you the
desired information. In cattle and sheep particand fatal stage of so-called cachectic diseases, treatment is out of the question. A., Lock wood, Wash. Your cow, according to
your description, has either epileptic or epilepti-
form fits. The former must be considered in-
curable. As to the latter the prognosis is a little more favorable, provided the causes-a great
many widely differing causes have been aceused-
can be ascertained and can he removed. Such a case requires a careful investigatiou before any-
thing can be done with any prospect of success.
Epizootie or Iufcetions Ophthalmia.-
A. Mr., Lemont, Ill., and A. S., Dispatch, Kan.
What you inquire about is probably epizootic or infectious ophthalmia, or ceratitis, a disease just
now very prevalent among cattle, and even among now very prevalent amolig cattle, and even among
the cornea does not ulecerate or beecome perforated the prognosls concerning final recovery and a
restoration of the cyesight is not bad. Fleaso Premature Birth.-NI. L. P., Macomb, Ill.
That your eow produced last September a dead That your cow produced last September a dead
ealf three weeks before her time was up, a pre--
mature birth eaused by external vlolence, does
a calf the full length of time. At any rate, since
the cow is a very good one, as you say, I most decidedly advise you to risk it, and breed her
again. It would be some what different if she had then the prospect of producing another live cal would, though not impossible, be rather slim.
Possibly Lung-worms.-S. H. M., Oriole,
nd. If your pigs show no other symptoms than thuse you mention, and have had access to places containing ditches or pools of stagnant water, they very likely suffer from lung-worms, and quantities of nutritious food and to keep them away from any stagnant water. All those tha lack strength and have a large number of lung-
worms will die, while all that are sufficiently ill pull through. It is one of those diseases mueh easier prevented than cured.
An Affection of the Throat.-J. S. T., Kingwood. W. Va. According to your descrip-
tion there aie three prohahilities concerning you calf. The difficulty of breathing, wheezing, cough ing, etc., are either caused by tuherculosis in the sublaryngeal glands, a place in which that disease a morbid growth in the laryngeal region, or hy the presence of a foreign body in or near the laryn.. Hare the calf examined by a competent
person, and then after the canse has heen ascer person, and then after the calse has heen ascer-
tained and it has been found that the same can be removed, have it done. If it cannot be removed a remedy is out of the question.
Inflamed Eyes.-R. T. T., Corning, Kan. All that can be learned from your inquiry is tha your mare has inflamed eyes, but whether the seat of the morhid process is within the eye or it is periodical or any other conjunctiva, whether decided by your statements, because you do bot give a solitary symptom characteristic of specific inflammation of the eyes. Hence I cannot answer your question. Possihly it may be that ophthalmia just now prevalent in many parts o the country among cattle. See answer to "epizootic ophthalmia" in present issue.
Continually Passes Wind.-C. E. P., Lindale, Ohio. If your mare continually passes wind rest after each) when driven give her two hours avoid feeding her any food that has any tendency to ferment, and give her only such food as is per-
fectly sound and easy of digestion. In particular fectly sound and easy of digestion. In particular avoid any wilted or wilting grass and clover,
grass that is rank and very juicy, any new hay grass that is rank and very juicy, any ne meal a small pinch of salt. If you follow the advice just given I have no doubt you will soon witness some improrement, unless the cause is different and damage.
Chronie Diarrhea.-L. D., Desoto, Mo. I have my grare douhts whether any treatmen and ascertained all the conditions having an and ascertained all the conditions having any of indigestion and chronic diarrhea of three years' standing. In the first place, the existing morbid changes which cause the indigestion and the diarrhea must be determined or brought to light will be possible only if it is found that the existing inorbid changes are such as can be reduced or be removed, which is rather doubtful. Therefore, if
you desire to do something with any prospect of success I have to advise you to have the case thoroughly examined by a competent veterinarian Lame.-A. H., Central Bridge, N. Y. If your
horse shows lameness when starting, and the lameness disappears after a mile or tro of travel it is very likely that the lameness is caused by spavin, and if the small "bunch" (enlargement) joint I would not hesitate to call it a case of spavin; but as you say it is on the outside, wher ing over the whole joint-very rarely makes its appearance, the enlargement either has nothing to do with the lameness, or the latter is caused by again, and give a more accurate and detailed description, particularly of the peculiarities of the lameness, and the manner in which the foot of the lame leg is put down and raised.
Pericarditis.-B. E. P., Girty, Pa. Xour
cow without doubt died of pericarditis, probably of a traumatie character, notwithstanding that fou do not say anything about the finding of a the pericardium. You may have simply overlooked its presence. If a sharp or pointed for-
eiga hody, for instance, a nail, or somethin eign hody, for instance, a nail, or something
sinuilar, is swallowed by a cow with her food, it usually passes without any ohstruction into the paunch, and from there works its way slowly hut
surely forward and downward, first through the surely forward and downward, first through the pericardium, and then when the cow dies is
nisually found at the point of the heart. This in less than three or four. weeks, and often re
quires a couple of months. Pericarditis in cattle, at least when terminating in death, is caused hy and is not at all an infrequent disease in cows fed . whole table-knife in the percardium of a cow body has once left the paunch, and before it has
ville, Ark. Notwithstanding the wide difference out from your superficial description. which gives only a few symptoms observed in both diseases, disease of your calf was mange or very inveterate ingworm. If it was the latter, the first morbid changes very likely made their appearance on head or neck in the shape of roundish patches, presenting an appearance as if coated with doughtike scales. Both diseases are contagious, and by preventing at the same time applications and a reinfection the morbid the lungs at the post-mortem examination, consisting in considerahle enlargement of one lobe and the presence of black (probably hemorrhagic) spots in both, will find a ready explanation if it is taken into consideration that the skin disease having spread over nearly the whole surface the body very effectively prevented the performance of its physiological functions (perspiration, etc.,) and thus compelled the lungs to act as
a substitute. No wonder, therefore, that the a substitute. No wonder, therefore, that the
latter thus overburdened succumhed to morbid processes. Precisely the same thing, though physiological functions have Lappened if the physiological functions of the skin had heen paint, grease or varnish. The calf in such a case also would have died of suffocation. If the disease is ringworm-begins in sealy patches of a roundish form and presenting an appearance as if coated with dried particles of dough-paint these patches on your second calf, which, you say, is affected in the same way, once a day with tincture of iodine, but at the same time thoroughly clean and disinfect the premises where the calf is kept. For further information I have to refer you to the numerous answers about
lished in these columns.
A Fistula.-T. J. Y., Rochester, Kan. What you inquire about is evidently a fistula, and cannot be brought to healing until perfect drainage has been secured either by making a lower open-
ing perfectly draining every part and possible pocket of the fistulous canal, or, a ccording to
ous canal from top to bottom so that whole fistu-
t will be exposed to treatment, and can be suitably dressed. This done, all tissues that have lost their vitality or have become degenerated must se destroyed and he removed, either by means of hat a clean fresl wound will remain, which will readily heal if kept aseptic and if suitahly protected against external injurious influences. Although your animal is only a calf, I most deformed and the subsequent treatment directed by formed and the subsequent treatment directed by
a veterinarian if one is a a ailahle. If there is not you will have to attempt the operation yourself, and if successful in that you may destroy the with a concentrated solution of sulphate of copper in water, to be injected into the fistulous canal if a lower opening has been made, or with finely powdered suiphate of copper if the fistula has been split open. These applications must not be repeated any oftener than necessary. If the
solution is used, three or four applications once or solution is used, three or four applications once or
twice a day may be sufficient, and if the powder is chosen one application ought to be enough. After thus a clean wound has been produced, a dressing with absorbent cotton saturated with a three to five per cent solution of creolin or of wice aci if water, to be renewed at least the solution will have to be injected, and the penings must be kept very clean-will probably have the desired result.
Umbilleal Mernia.-S. P. T., Carrol, Neb. and C. D. D., Olivet, S. D. An umbilical hernia leaving any perceptihle trace or scar, by means of a surgical operation which every qualified eterinarian is able to perform. In no veterinarian sibly enable the following instructions may posand without the instruments required for the regular operation, but a puckering scar indicating its former presence will remain. First prepare the colt by withholding its feed for the last twen-
ty-four hours preceding the operation, then for the operation throw the colt, tie its four feet
the together, roll the same on its baek, place a bundle of straw previously prepared on each side of the same, and then by means of the rope with which sufficlently drawn up to keep the colt on its back and to give you room to get at the hernia. Then dle of the hernial sack, and raise it so that the contents will drop into the abdominal cavity: Meanwhile you make a double noose, a so-called
castration noose, in the middle of a good, strong "waxed-end" previously made for that purpose by a shoemaker, ascertain that no intestines are in the hernial sack, slip your noose over the latter as
close to the surface of the abdomen as you can, and then while your assistant raises the center of the hernial sack yet a little higher tightel your noose is as close to the surface of the ahdomen as you call, make an additional knot in it, and let
your colt rise after you have cut of the unused ends of your "waxed-end." for the operation is
finished. After some time the hernial sack will drop off, and if you had your ligathre tight enough no wonnd will cxist, and nothing more will be
required. Still, if a gond reterinarian ls a ailable I advise you to let lim perform the operation, for
he having the necessary instruments will be able

N0 FAITH CURE
ABOUT STUART'S DYSPEPSIA TABLETS

They Cure Stomach Trouble and Indigestion Anyway, Whether You Have Faith in Them or Not

All physicians agree that the element of faith Firm belief and confidence in a family physic ian of the same confidence and faith in a paten ages.
This no field especially true in nervous troubles, and and charlatan as the diseases arising from quack or run-down nervous system.
indigestioless. the most common of all diseases cause nerrous diseases trouhles, which in turn tion and loss of flesh, requires something beside
faith to cure
Mere faith
will not faith will not digest your food for you, your flesh and strengthen your will not increase but Stuart's Dyspepsia Tablets will do thes ements of dlgestion, they contail the juices, and peptones necessary to the digestion and assimilation of all wholesome food. Stuart's Dyspepsia Tablets will digest food if
placed in a jar or bottle in water heated to degrees, and they will do it much more to 98 ly when taken into the stomach after meals, Whether you have faith that they will or not.
They invigorate the stomach, make pure blood They invigorate the stomach, make pure blood and strong nertes in the only way that nature
can do it, and that is fron plenty of wholesome what we Stuart's Dyspepsia Tablets are sold by drug gists at 50 cents for full-sized package.
Little book on cause and cure of stomach

69 Cents for Nothing



rubavemranay




Lithographed Carpet and Rug Catalogure,
ond our Clothing Catologue with samples
atloched, are aloo freeo Expessage po id
on clothing, freight paid on carpet.
JULIUS HINES \& SON






FREE


有ow, here's your ticket. pa, and don't for
get to change cars at Howard City
You'd better buy a paper on the trail, You d better buy a paper on the train,
so yon'll have somethin' to pass away the tinu. You know you hate to lay
over two hours. Here. let me straighten your tie; it's all hunched ulp."
Mrss. Jonathan Joyce tooped down
and fixed her fatlier's black neelsway and fixed ber father's black necksearf
with nervous fingers. Slo was neurly foot taller than the old man.
"As for the trouble you and Jonathan
had over my shoes, forget all about it, do," she had over my shoes, forget all abont it, do," she
continued. "They wasn't worth fussin" over, but

## Jonathan's hot-headed.

"They wasn't worth mendin'," said the old man, With the stubboru wag of the head and unyielding he continned. "I told you so. They wasn't worth the wax-end it would 'a' took to hold 'em. Anynow, they wasn't worth all the trouble they made," repeated the roman. "Don't go to holdin' it up 'gainst Jonathan, and remember, father, you're goin to come and see us ever' tim The old man shook his head persistently and mumbled to himself
"Ever'thing'll he nice there. You ain't no ide' how pretty it is, pa. I'd like livin' there myself. You'll be all taken up with it, I know. The grounds is all set out to posies, and you'll be a sight better oft there than here. We have t' pinch old shoes." She said this with a little accent of

The old man moved away from her impatiently He hobbled on bis old crooked cane to the far en of the platform, then came hobbling back.
"There ain't no use makin' excuses," he said; "there ain't no use." And he drew his shaggy the light-colored calico shirt his daughter hat freshly ironed for this journey. "I'm old; that good, so I'm bundled off to the Soldiers' Home the matter. Better tell the truth, Lorinda, not the matter. Better tell the truth, Lorinda, not
try to patch it up with lies. I'm real glad your ma's dead, Lorinda; yes, I am. Don't try to tel me the old man lies, daughter. There's no need of
He hobbled out to the track and looked for the coming train. He could see the eurling smoke of it in the distance.
"That's the way it always is when a body out lives their usefulness," he mumbled to himself
"they're cast aside like them old shoes o' Lorin"they's. Tell Jonathan," he said, coming back where the woman stood, her bare, hard hand clasped nervously, and a pained expression in her clasped nervously, and a pained exp."
The train came steaming and pufing up to the platform. It stopped, and the brakeman called hand on the railing and motioned to the woman to come
low.

".
you minda," he said, "don't let it die out. Would you mind waterin' it, say once in two days, 'till it gits firm rooted? I want that white rose to
blossom there for her. I'm afraid it'll die ou thout it's 'tended." Then he clambered up to the door and passed inside and did not look back
again. Lorinda's hands were clinched till the nail
were white. She thought of the little mound scarcely a year old that the rose-bush grew above and bahy Emmeline, taken away on her fifth birththe train began to puff and pull past her and crep away down the track, leaving only a trail o smoke behind and a dull ache in her heart.
"Well, it's best, anyway," she mused. "He'll have comforts. Tt's best fr him." Then she went post.
Grandfather Jackson sat stiffy down upon one of the plush-covered car-seats and looked out of the window and felt the rhythmical sway and jerk
of the great iron monster, the clanking of whose of the great iron monster, the claneleng jessly past each familiar landmark, although invisible hands seemed outstretched from even the grass of the fields, clinging to hold him.
"I'm too old t' patch shoes," he repeated, with pathetie stolidity, as the click-t-clack of passing rails grew oftener and louder. "I'm too old." he leaned back against the cushioned rim o On and on the train bore him. Field after field, a glorious blending of colors, whirled past and ou . He knew them all, and mechanically his lips named them as they passed-Dave
Wheeler's field of prize rye, bending its long silvery heads in the sun; Mr. Beecher's thrifty rabbit this minute," he mused. "They say corn that's big 'nough to hide a rabbit by the Fourth of Farm-house after farm-house came and wenthomes where there was ever a ready chair for Grandfather Jackson.
"I believe in bein' neighborly," he said. "There anybody." He wagged his head in an agreever way as he thought how his head in an aggrieved

Joyce, had called him "worse'n an old woman to gossip." "I don't care. I wouldn't he so eloseold mau. "S'pose I'd better ' $a$ ' set hy in that stuff; drafty shop patchin' shoes! There ain' nothin' worse f'r rheumatiz au' stiff j'ints. I'u
seventy years old an' past," he muttered, hitterly. eventy years old an' past," he muttered, hitter
"Jest bundled off 'cause I'm too old to work." Jest bundled off 'cause I'm too old to work He leaned his gray head over nearer the window. winter, an' bought all my terbaccy with patehin: money frou the neighbors, an' land knows how many times I've patched Lorinda's! The way she hittles holes in 'em beats me. When I was their scuffin': Seems's if she's scuffed 'em faster since little Emmeline died. Seems 's if she's heel harder on the old man since little Emmeline died, he repeated. "It's soured her disposition.
Then they came to the long line of willows tha parted now and then to show the old man in the car-window a glimpse of the gurgling. crooked river that wriggled in and out among the hrown ".T1uks,
"There ain't no place that beats Leaf river f'r trout-fishiu',", he
'low fishin' there."

## His hard hands

handle of his cane closed tight ahout the knotty
"Jonathan never had no luck fishin'," his thoughts kepht on. "It used to rile him clean up 'sce the fish makin' a bee-kine f'r my hook, 's if hey knowed. Specially trout." (irandfather Jackson chuckled a painful little chuckle that drifted out into a long-drawn breath and finally Lerminated in a half-sob.
Leaf river swept out of sight, and the last graceful willow waved good-by to the old man. He craned his neck to watch it as long as he could. The train whistled and they passed a crossing; then houses, a church-spire and a few lettered in and called "Howard City", and the tuan came in and called "Howard City," and the train began o slacken speed and then stopped. Here was He took his worn black valise, the lunch-box Lorinda had carefully tied with pink twine, and his every-day straw hat down from the parcelbasket, and went out.
The little town was not altogether strange. He had been there once. years ago, to a soldiers reunion. He looked about for a friendly face as he stepped off on the little dusty platform, but there was ouly the sallow-faced ticket-agent with is black skulleap and a cross-looking man hold ing fast to a timid
the steps before him.
He stopped a moment to study the glaring red poster that decorated the building's front, then went illside. It was a stuffy little waiting-room tank with its delusive lettering in the corner beguiling many a weary traveler to hover in vain expectancy about its rusty faucet. A wooden bench, paiuted brown, encircling the wall sufficed for seats. Grandfather Jackson scarcely dared trust his rheumatic figure to the sharp curves of it.
He went over to the window and looked up the He went over to the window and looked up the narrow little street and read the signs that lettered the white store-fronts, and
ams tied aloug to the hitchin
"That fur one
"els," he mused
Then he went
Then he went orer to the opposite window
"'Tain't two miles up yunder," he reflected.
There was a wistful look in his eyes, and he tried to draw his chin into firm lines. He took a little tim box from his pocket and opened it au? spilled a coiled-up fishing-line and a collection of hooks out into his hand. He counted the hooks, and dropped them, one by one, back into the bo and uncolled all the long length of line and coiled it anew more firmly. Then he shut the box and looked at the cover. It was adorned with a gumpicture, glued securely wan-a stiff little bunch Jackson, and had helped him fasten it on ackson, and had helped fin fasten it on. He a bare little mound where one tiny slip of a white rose bush was planted. Would Lorinda forget to tend it?
Across the room sat the timid little girl. hel tearful blue eyes riveted on the old man; a tiny mite in a faded pink calico dress and a dirty cotton hood much too small. When he turned around he saw her. She sat up stiff and straight on the bench, with her hands folded upon her lap and her short bare legs sticking out before her Her little sun-burned cheeks were grimy with "Poor little t.
Poor little toad! poor little toad!" mused the old man. Something in the child's attitude cuched his sympathetic heart. He watched her line was-not much," he mused
The cross-looking man was walking back and orth on the platform outside. He came in and o him. fearfully
"Tired?" he demanded.
The child shook her head
"Hungry?"
nswer in the negative wistful, but continued to
nswer in the negative.

## elted himself. "Well, you sit still; I'll be back south aud one to the east and one to the west. <br> then your wish will come true, I shouldn't won-

 after a little' I'm going up the street a bit."IIe went out on the platform. The child's appealing eyes plead with Grandpal Jackson. He with an old-wise shake of the head. "I'll find
The stranger had paused to look lazily up the Threet. The old man went close.
"say, is that child yours. sir?" he questioned, "Say, is that child sours, sir?" he questioned,
with the innocence of old age. "I was thinkin'
I'tl like to give 'er" a cooky if son didn't uind. I'd like to give 'er a cooky if yon didn't unind. elu fresh f'r my luneh. I've got more'n I need.

## The man langhed out loud.

"Hurt 'er? Well, I should say mot. Give 'er many." "Did you to. I dey "d man, quizzically.
"Mine?" The stranger laughed again.
should say not. She don't belong to any one that I can find, and nohody wants her. She'll belong Water. She's bound for the Orphans' Home."
Grandfather Jackson's breath came in sharp gasps. "Did you say jou was bundlin' her o
the Orphans' Home?" he repeated, vaguely.

That's the place. Great institution tha
lore than al bundred homeless waifs there now This one's mother just died this spring. Her
father's dead and her sister's dead."

Yes, and little Emmeline's dead," finished
The stranger had moved away down the platform. He watched him a minute and then went inside. The child seemed pleased. She smiled raintiy to see him. He went over and untied the pink twine that secured his lunch-box, and took "She used t' call the raisins bugs," he mused. He "Dook it close to where the child sat
"Don't the little girl want one o' gran'pa's nice his rough, horny hand, and held it out to her in "There, that's a hand, and smiled and nodded "There, that's a lady, that's a lady," he encourake it. "Course all little girls like cookies."
He sat down and watched her eat it. "Thought
sat down and watched her eat it." "Thought
Hungry's a bear, poor little toad!" he mused, ith a satisfied nod.
She devoured the cooky to the very last bite saving the raisin till the last. Grandfathe sed to, for see that. "Jest like little Emmeline she had finished he reached over and patted he pink frock sympathetically
"The little girl ain't afraid o' gran'pa, is she and tell what your name is
He drew her shrinking little body near and lifted it up.
"Don't weigh more $n$ a pint o' cider all drinked
inp," he said. "Now let me see; is it Jennie 'r
Lily 'r Bessie 'r-it ain't Emmeliue, is it?", questioned.
She laughed. "No. it ain't; it's Daisy," she said. Then he told her all about little Emmeline and he white-rose bush, and showed her the gumShe looked sympathetic tin box.
his arm. "How big was she?" she asked
"Well, I should say she was jest about as big as
you," he told her, thoughtfully. "Jest your size
to a T." Then he told her about Lorinda's shoe and the Soldiers' Home. Lastly he told her about Leaf river. "Come ou over here and I'll show you jest about where it is," he said. He led her ore to the windo, and red her up. "See that gree She nodded her head
"It goes bubblin' an" talkin' to itself down there under the trees. It's so clear a little girl like you could jest see 'er pretty face in it. I've jest hair by moonlight.'

The child lifted her wide eyes to him.
'It seems when I lay there on the grass an' shet my eyes I can hear 'em jest playin' harps an singin up annong them willer-trees. Mebhe we could see the willers awavin'. Mebbe we could."

And the fairies?" questioned the child
Yes; an' I shouldn't wonder if we'd find fout leaved clovers up there in the grass, $t$ ' wish by She shook her head
"Never did? Well, well! Come on; we'll up this miuute. Tell you what, we'll take our lunch, and we'll eat it up there by 'n' by
Thes went out together, the old man and the little girl. It was not far, and a little gnarly maple spread a fickeriug shadow on the grass. Clover "Looky' "Looky! Look 'way off yonder," said the o
man. "We can see 'em wavin', sure enough!" The child's eyes stared wonderingly. "IT

## the fairies 9 ", she said.

"Mebbe we ought to he a mite closter." reasoned Grandfathe: Jackson. "Say as fur as that big

They went on until they came to the elm. The old man lifted her to his shoulder, that she might see better. There was only the silvery sheen of see better. There was only the silvery sheen of
the distant willows and the blue haze of the skies. "Mehbe we'd best try to find four-leaved clovers first, t' wish by," he suggested.
They sat down and searched through the grass, both equally eager. The little girl found the firs one.
"See:"' she cried. "See! Now what shall I do?" don't tell; and then pull each oue of the four She rlid as he rlirected. "Now mustn't I tell?"
she questioned. " No, for if you do the old witch-woman'll hear all away where the fairies can't find "em."
The child latid her head over on grand father knee. "Tell ine athout the fairies." she said
"Why do they comb their hair hy moonlight?" They doy comb their hair hy moonlight?"
Through the day;" explained the
man. "They don't come out when the sum shines; they're afraid it'll burn their complex
ions," he chuekled. gaily. ions," he chuckled. gaily.
"An fairies sometime"
away off, lon't they? Could they carries people liftle girl as hig ats me?" The ehild looked at
Grandfather Jackson wistfully. "Fairies wout never come 'there,'" she said, sadly. "Poor little
His arms tightened about her. "Poor His arms tightened about her. "Poor little
toad! poor little toad!" he mumbled. "Fairies won't never come 'there' neither, dearie." "Need
She clasped her arms about his knee. "Ned He drew her up in his arms. "Shall gran'pa tell you all about a fairy named Silver Hair?" he hair and told her all about it tiny fairy who lived all her lifelong in the golden heart of a water-lily Her little form lay limp in Grandfather Jack Then she opened them for a moment and put her Then she opened them for a moment and put he arms about his neck. "Put your ear down," she
said; "I'll whisper it jest to you. I wished a real, true fairy'd come an' earry me away an' hide me. I wished she'd take you, too, grandpa. Hide u
both so we wouldn't have t' go." Her little arm fell down again and her eyes closed.
The old mau's wrinkled hand stroked her re cheek. A little sigh escaped her sleeping lips, "Poor little chicken! poor little blessed lamb!" should waken her. When he held her fast asleep should waken her. When he held her fast aslee
he looked about him restlessly. The little brown station was out of sight. To his right were the glaring loofs of the village, and to his left, away off there, were the willows. The roofs seemed
repelling him, the willows seemed beckoning. He looked down at the little bare feet and thought o Lorinda's shoes; then he thought of an empty wooden crih in Lorinda's bedroom, and a tiny mound whose sod was not a year old.
The sleeping child's lips moved wearily. Grand father Jackson listened. "Do you s'pose it'll com true? Will the fairies hide me?" she said.
Just then a train whistled in the distance.
look of anguish shot across the old man's face look of anguish shot across the old man's face
He folded the little form to himself tenderly and staggered to his feet. He stond a moment lookin staggered to his feet. He stond a moment looking
about undecided, then he moved forward, hut it was not toward the brown station.
"It shall come true, dearie," he whispered in her ear. "-The fairies'll hide you an' gran'pa both. I see 'en. beckonin'; yes. I see 'em. The fairies is goin 't' hide us, dearie." He trudgen slowly long over the grassy roadside.
Lorinda put the fried ham and the warmed-up potatoes on the table; then she called Jonathan had gone wrong all day. Jonathan came stolidly in and took his place at the head of the table, and Lorinda sank down in her chair with a sigh, and began $p$ toward Grandfather Jackson's empty place, but both were painfully conscious of it. There were two empty places at the table nowyear. Thele hign chair had been drawn a of wild pinks the old man brouglt in for the tabl the night before. Lorinda hadn't the heart to throw them out.
"I un glad they have flowers there," she mused, After the chores were finished aud the suppe down cleared away Jonathan came in and sa down in his rocker, with his back to Grandfathe up and down the fashion column of their farm magazine
Lorinda came in and took of her dish-apron an sat down in her little sewing-rocker and rocked She hadn't any beart to read. She was too rest less to sew. She glanced up at the old man
empty pipe on the clock-shclf, and flushed up to empty pipe on the clock-shclf, and flushed up to eyeing her. clock," she said.
How still it wi
How still it was in the great room: A dog down with a sad little sound in the clms outside. The squeak of Jonathan's rocker was almost unbear able. She stood it as long as she could Do turn your chair straight, Jonathan," sh The hig tabby-cat that had been Graudfather Jackson's pet cante in and jumped up iu his chair over and put its paws up in Lorinda's lap and mewed with questioning accent
"Poor kitty!" she said, syupathetically; "poor kitty!" and reached out her haud to caress it
"Want some milk?" And the cat followed her

## "Dave Wheeler. is that you?" she called. She <br> "Toight the wheels had sounded familiar. <br>  <br> "Father:" she cried; "'not you. Father Jack so "The stralued her eyes through the darkness.

sonethiu' for ye, daughter:""
She had stepped out on the porcb and held lee
arms forth gladly to welcome him.
"Shnt $y$ rrese Lorinda! shut y'r eses!" he
eried, with childish excitement. "Hold y'r arius stidy now. There. now open 'em." He gare orer
he hurden of Daisy's sleeping hods, and the tired hild's head fell orer on the woinan's hosom. "It's little,
Loriuda's arms grew weak-so weak she almost let the child fall. "Father:"'she gasped. then, she
clasped the -little figure frautically and went clasper
inside.
Grandfather Jackson followerl chuckling. er? Didn't I say 'twas jest a-losin' little Emmeline hat had soured 'er disposition
abes they he," explaincl iouse Wuceler later Tou see. I jest stopped t'let my horses rest a bit in the shade of the willers down along Leaf river aud wandered down t' find a few sprays o' pep'-
mint frr Nancy: when I stumbled right onto 'em mint fr' Aancy. when I stumbled right onto em in an' fetched 'em 'long home. The an' took 'em in an' fetched 'em 'long home. The
hahy's slept all the way, an' gran'pa's held 'er in "s arms lest the joltin' "ud wake 'er." " aughter-just t Grandfather Jackson. when the story had been brokenly told. Lorinda sat in her little chair, holding the child tenderly and rocking with wet mis

Lorinda stooped and kissed the golden head passionately. It roused the little sleeper. She pened her blue eyes and looked up into the
roman's face wonderingly. The pink lips parted, miling.
"Oh, you're the fairy." she said. "You've come $t$ hide me, ain't Jou-me and gran'pa?" She
closed her eyes again and snuggled down close to Lorinda's hearing breast.
"I'm goin' $t$ ' mend your shoes, Lorinda; I'm goin
man.

THE CICADA
Ambushed assassin of the silences.
Where midmoons languish through midsummer's swoon,
Thile soft and
The cricket pipes to crooning mantises,
Like jangling chords upon discorilant keys,
Thy sudden dagser stabs the qulet noon
Till summer's soothinc lullabies attune
Till summer's soothing lullabies attune
Their rasping notes to thy hoarse ca
Hilarious bandit. animated sound,
The ebb and flow of breezy tidal waves,
Where all sweet thoughts harmonious are drowne
And mldges drone abore their billowy graves,
To him whose soul is thrilled with joy like thine-
nony and discord ar
Edwin S. Hopkins, in The Sumpy South.
THE STORY OF A CLAIM

WHad it at last-the claim, I mean-
or, rather, we had them, for Vau and I each had one. We had so oftem
pietured this moment during the claimpictured this moment during the claim-
less fears spent in teaching in Chicago schools. Other women "took up land,", and why
shouldn't we? No more tired nerves, no more
 free ande easy ite under our wn wine ana ngytree,
as ran was wont to say. The ine and figtree
were set to be planted, but Yau allways was imagninative
Our elaims are ajjoining. and for safety and
company we built our cabins very near the divid. company we built our eabins verry near the divid-
ing-liue, eonnecting them by a pasasageras, tlius makinin one eulliding of it. By this srrangement
we could he together as nuuch as we likel, yet we We could he together as nuch as we liked, yet we
slept and lived on our own claims, in order not to cheat the great republie which was giving us our
land for next to nothing.





## 







## on her own clain. After whe fished the oil-stove from under the

ease which held the encyclopedia, we fried some
bacon and made coffice. After breakfast, poor as
it was, we felt more hopcful, and hegan to put the
house in order. We were very busy for a feww
days putting up shelves, papering the roous and
arrangiug the lares and penates which had aceuarranguly the lares and penates which had accu-
mulated durthy the years we were teaching school. Sketcles, rows of books, rugs, chinad pillows and a couple of soft slat
the Shanty look quite homelike.
milles awar. He and his wife, Emily Ann, were much iuterested in us. and we in turn were grate-
ful for their friendliness. "Jone," as his wife ful for their friendlhess. "Jone," as his wife
called biun. took us uuder his guardianship; he was our oracle, as Van said, and we asked his advice ahout all sorts of matters. Em'ly thn too. was of the utmost asitance to us in the mauagement of our housebou wairs. she wnuld come over whenerer she could get away from the
children, and sit with her sumbunnet on, talking like a cook-book, to quote Tan again. If the her kindn her kindness to us by the fun she got our
witnessing our struggles with domestic affairs. For safety 「an and I had purchased two pair of revolvers. and had practised shooting at mark before learing Clicago. When we first
went to the Shants we used to spend some time wellt to the soants we used to spend some time
erery day shootiug at a target. to keep up oul every day shootiug at a target, to keep up our
practice against the time when we should he besieged by tramps or Indians. As time went on weary of the loneliness. If ever two mortals got their fill of solitude, Tan and I did that summer It was well that we had to he busy or we might back to clive the claim and ignominous "oung idea to shoot." Van did some gardening, raisin what Joue called "sass"-lettuce, radishes and tomatoes. I had a brood of chickens for my special care, but most of them contracted the pip,
and died. As for our farming Jone did that for and died. As for our farming, Jone did that for
us. He talked encouraringly of the crops, bu us. He talked encouragingly of the crops, but
neither Tan nor I knerw what he had soved planted. The experiment was making large inroads iuto our savings, but we consoled ourselres
by the thought that other women had made oy the thought that other women bad made why we should not do the same.
The evenings were the most lonely time. We couldn't go to hed as soon as the supper-dishes ere washed, and we couldn't sit staring at each forgoten so we brushed up some of our almos and I studied Greek, after a long lapse of years, and read Homer. Sometimes we collaborated on a novel, which. I may add. we did not expect would ever see the light. It was not worth while to send for our piano, though we missed it sadly, Four uneventful months passed. We sat in the door one September exening, and as if realizing our loneliness we spoke "If it has thing would happen." "If it has to be
Tan added, rashly and ungrammaticall
an added, rashy and ungrammaticalls.
We got the answer to our wish a few moments later, hut instcad of an Iudian brare it was a mee specimen of civilized humanity which crept to our door. He looked all around, as if afraid of being followed, and when he reached the doorstep he fainted. Tan ran for the camphor-bottle, and
sprinkled him liuerally; next she emptied half the contents of the brands-bottle down his throat. In $a$ few moments he sat up and tried to speak.
"He is eraz̧," I said, watching him from a safe distance. "How he mumbles his words
"He is not mad, most noble Festus," Va eplied, as if she had known him all her life,
"Then he is intoxicated." "Then he is intoxicated.
" N 0 , he isn't; but it is evident that something is the matter. Perhaps he will tell us what it is
when he comes to himself. At any rate we have when he comes to himself. At any rate we have hands full. I don't know what to do with him how that we lare got him. It would be easier to entertain an Indiau; one could simply say 'how' to hiuiu and give himsometuing to eat. Let's give this man something to eat; he may be half
tharred. I'm going for Jone as soon as I dare starved. I'm going for Jone as soon as I dare The man drank a glass of wine and ate a
hiscuit, hut he did not seem at all famished. He hiscuit, hut he did not seem at all famished. He kept gazing out of the
fashion, and at last he spoke

## "Have you any men in your family?"

mealled-for frankuess. It what struck me as and I was about to reply that we had a father and husband apiece, to say nothing of several hrothers The sensation $n$
ast at Xan for
"I hope I haven't frightened youl. Since there are no men here, 1 must tell my story to you. I of my life. At any moment my pursulprs may hut alhout ten mulles from here was murderedl last uight. I had spent the previous night in his hut. I was a stranger, and when he was upund mur am not afraid of a trial, for I can prove my iunoam not afralid of a trial, for I can prove my iuno
cence, but you know what justice means in this wild country-a chance to say a prayer, perliaps then a rope and the nearest tree.
Even then I thought he might be acting, and
I felt my self hardening. Van's face was as white I felt my sel
as chalk.

## "TVe have revolvers," she said at last, "and we will do the hest we can for you. Tell us what we

"If Ihlde they will find me. Till take my chances outside. I bave no right to put you through w you may have to see." He rose as he spoke.
I made an errand into the other side of the Shanty, aud called Vau after nie. "May I ask
what you inean to do with him?" I demanded. "I don't know; I wish Jone was 'hcre. "There he is now," I sald, confident that our
"Hain"t got any murderers hidin in your chanycloset, hev ye." asked Jone, as he strode ul to the door. There's a possc of men look:u fer drum up the timber. En'ly Anu, she aliowed sou'd he frightened, so she thade me coune ove belp them look, hut Em'ly Ann was that nervou
Van flashed a look at me. Clearly Jone would he worse than uo help. and we must get rid of him nothing to possibl bill time we we flad to hear him spin his endless yarns; but if he were to get started now the man iu the next room might be captured and hung hefore our eyes. While I was thinking how to get rid of him Van started him off to help hunt for the murderer
I locked the door after him, and when I went into the next room I found ran stirling a mixture forn-meal and water.
"What is the use of doing that now?" I asked. thinking she was busy with our matutinal cornbread.
am making a poultice. I have the whole thing planned. We must say that he is a woman riend of ours, with the neuralgia in her face. All clothes on him and an afghan orer him. thes ${ }^{\circ} 1$ nerer guess that he isn't a woman." Yan explained. lueidly. "His face will be covered with the poultice, and they won't recognize him if they do come in.'

## "But a co

## he ncuralgia."

"I can't help that. He must hare a poultice and I bare nothing else to make it of. I'm going o put it on; there may be no time to lose.
The man lay on the lounge, dressed in a skirt of ran's, with a shawl around his shoulders. His head was covered with a hlue "fascinator," and a red and yellow afghan was thrown over him. perfect Van's Scotch ginghan flounce peeped out from the fion in a truly feminine manner "Yow, Laurie," Tan said to me, "remember this is our friend, Miss Amy Barker, who is suffer ing with neuralgia in her face. Don't forget the name-Amy Barker-for if our stories shouldn't hang together it might sound suspicious. Don move much, Miss Amy Barker.'

I won't. Are my feet covered? If they should show they would give me away,"
"Your feet are covered. Don't move the poultice and show your mustache; I Wish there had been time for you to shave it off. We are going to sit in the next room, and if the men come we wil bring them right in here to show them that we bave nothing to hide.
an and I sat down and tried to busy ourselve with some sewing. We had taken only a stitc
two hefore we heard the tread of horses' feet
"There they are!" said Van, turning pale. She took a brace of pistols from the table drawer, and went into her side of the house. "They are here. I'll leave these pistols with rou. If anything goes wrong, sell your life as dearly as possible." "Thank you," the man said, very quietly. "Wil you take these papers? If anything happens
they will explain who I am, and sou will please they will explain who I am, and sou will pleas write to my mother.

By the time Van came back the men were in front of our door. Three of them came in. Ta opened
"Good-erening, madam. Sorry to trouble you but have you seen anything of a strange party hereahouts? We are looking for a joung man rather good-looking. He murdcred old Dave rather good-looking. He murdcred old Dave
Bowers in his house last night, and we want him that's all. You haven't seen any stragglers hang ing around?
Tan lied as if to the manner born, aud the spokesman seemed satisfied. But one of the part said, "Suppose we glance throngh the house. So long's the ladies bain't got ansthiug wrong they needn't mind.
"Certainly not," said Van, coolly. Two of the men followed her, while the ot
chicken-coop and the cow-shed.
chicken-coop and the cow-shed.
"Tre bang the way with a lamp. "She is," said Y-an, with neuralgia in her face, and in this dreadful country it is so hard to get a doctor "
Miss Amy Barker lay quietly while the me gave a quick glance around the room. One them looked into a closet and pushed ran dresses aside, and another peered uncler the
"Do you know anything of that new doctor over at Madison?" asked V'an. "I may have to go afte him if Miss Barker gets worne"
"You may take off your poulticc. Inlss Barker," she said, after seeing the men ride away. "Th danger is over for the present. Whar a luck thing that Jone didn't come with that party! Amy Barker was pale, but he smiled as ey himself in the mirror - 'rou have saved my life," he
"That is the very thing to settle," Pan replici. Plan after plan was proposed and pronounced unsafe. At last Tan, who had engineered the whole affair from the beginning. said:
and buggy and drive you over to the stand borse ladison. If wiec sou orer to the station a xplain. explain, I will pretend that you are Miss Church thougt going for the do bor Ben Lauric. if any one comes yon must he Miss Barke on the lounge in agony with your face. Of course, there will be some risk of detection at the station, hut our friend must wear my clothes, and he ma pass for some strong-minded, 111 -dressed rane
woman; there are plenty of that type trareling ill this part of the country. Have you a razor.
Miss Barker? You must get that mustache of somehow."
-I have a razor. but this is too much to let you do for me,", said the stranger, with a strong
show of feeling. "Think of that lonely ride home at that time of night!"
"I ram not a fraid. I shall carry a pistol. and I While I could hit any one if I tried very hard." While the man shared off his mustache in Van's part of the Shanty. Yan and I held a council in
my part. I incisted that she should not drive the strauger alone to Jadison: that I should so too She repiici that there was not room for three in She replica that there was not room for three in
the buger, and that she was not afraid as our discussions nsually ended in Yan have her own way, and we started for Jone's to get the

It was half-past mine when we reached Jones, aud the lights were all out. "There is no dange that they will hear us." said Van, "for they sleep Whe au phan asylun." We hatmessed the hors quickly and led him slowly away, praying that be would not feel inclined to neigh his disapproval out and reached the Shanty Amy Barker cam the plaid ging place at Vass side. He wor sailor hat and a thick reil. In a bag were his hat and coat. Both V'an and he carried pistols.
I watched them drive away, then went into the house and put out the lights. It was then half past ten. The night seemed endless. Eleveu twelve, one, two struck. I began to be very all, and what had become of Van! It was nearl three before I heard the sound of wheels.
"He took the train. and no one molested him. It was an anxious moment when he boarded the She spoke as if she was very tired, and her breatl came fast and hearily. Te still had the orse to take back to Jone's, and it was near daybreak before we reached the Shanty. We di ot rise till noon next day, and
Ten days later. Jone eame to the Shanty with he mail. As I took it from him I noticed that ne of ran's letters was addressed in strang riting. She made no remark as she read it, hut hat evening "hen we sat orer our toast and te he said, "He reached home safely
Who?" I asked, as if I did not kno
MIr. Bruce, of course. He is very grateful to "I did nothing.s wor
"I did nothing; you did it all. He used a grea and of paper to say that he reached home safel suppose you and he heeame quite well aequainted during that long drive.
"Yes, he told me something ahout himself. He "Yes, he told me something ahout himself. He ketch.'
I made no comments, and Van vouclisafed no more information. I felt in my bones, as Jone would have sald, that we had not seen the last of Miss Amy Barker.
The went hack to Chicago to spend the winter, or the shanty would not be endurable during cold weather. Yan received letters from Mr. had been found. and quick justice had been meted out to him shortly after Mr. Bruce escaped.
chickens and was much more successful than I had expected to be Yan's garden was as flourishing as the chickens would permit it to he. We had a number of acres under cultiration, thanks to Jone, and he had planted a great many trees.
One afternoon in the late summer, as I came back from Jone's. I saw a man's broad hack against the window of Van's part of the Shanty. 'It's Mr. Bruce!'" I gasped. "Oh, my prophetic soul!:" I hope that I wasn't almost sorry that we had helped him away, but as I chased the chlckens out of the tomatoes. I could not make narself go auything but benign. I could not make myselfgo
into the house just then, so I got the batchet and into the house just then, so I got the batchet and acquired since leaving C'bicago
The sound of the ax brought Tran out. I didn't nswer her when she spoke, and she stooped and looked under my sunhminet. I saw that she had a hlue rihbon at her throat and that she had actually hunted up the long-unused eurling-iron and cu.
tear's.
"Laurie Church, how silly you are! Why don"
you come into the housc and see who is there?"
am crying about? I won't sec him; so there?" and in nyy tragie mood I threw the hatchet, nearly cutting the feet of our brown Leghorn rooster. Don't he such a gnose, Laurie. Mr. Bruce has

| HAVE YOU SEEN THE Jack of All Trades? | PUMPS <br> WATER - <br> SHELLS <br> CORN- <br> GRINDS <br> FEED- <br> CHURNS <br> BUTTER- |
| :---: | :---: |
| -and hundreds of other jo strength of 15 men. Most Co useful power ever invented. Co cents per hour to run. Espec 10 farm work. <br> it is a NEW ENGINE Fairbanks | jobs with the Convenient and Cosis only TWO cially adapted <br> IE MADE BY |
| Morse ©Chicago <br> Cleveland <br> Cincinnati <br> Company <br>  <br>  <br>  <br> Louisville <br> Indianapolis <br> St. Louis <br> Kansas City <br> K | St. Paul Minneapolis Omaha Denver San Francisco Los Angeles Portland, Ore. |

There's No Waste

## SCIENTIFIC Oininivistr



THE FOOS MFG. CO., = SPRINGFIELD, OHIO


We carry a complete stock of all kinds of
RUBBER and LEATHER BELTING. We buy our goods at Sherifs' and Receivers' ${ }^{\text {Sales. }}$ Write for
FREE ILLUSTRATED CATALOGUE No. 34 on
Hardware Pipe, Roofing, Plumbing Material,
Wire Ron Dry Gonds. Clothing, etc. etc.
OUR PRICES aFe ONE-HALF OTHES Chica.go House Wrecking Co. W. ${ }^{35 t h}$ CHIIITOn Sts

of board lumber in ten hours with 4-horse power.
Prices 10 W, and we pay tbe freight.
DeIOACH MILI MANUFACTURING Co.,
300 Highand Avenue.


SAVE IT ALL
Star Feed Grinders

Cider and Wine Press
MACHINERY

Empire State Pulley \& Press Co.
AGENTS WANTED


WANTED*
LADIES AND GENTLEMEN TO PROCURE SUBSCRIPTIONS FOR THE

## WOMAN'S <br> HOME <br> COMPANION

the Most Beautiful and Popular Home Magazine in the World. Premium list and sample copies furnished free. Address
WOMAN'S HOME COMPANION,
Springfield, Ohio

$\qquad$
$\qquad$
$\qquad$
was considering what to do I heard tan's voic
for the first time.
"I cannot tell yon anything different from what
"I cannot tell yoln anything different from what with such things, and we made a solemn compac "I think that has on me." How silly we are. You need not be separated保 live with you in Boston just as well as iu ot ber." can't know what Laurie and I are to each
"I believe you are wronging Miss Church. If would tell you to marry me.
Mr. Bruce walked away, and I heard a sob pan of peas slid to the floor, and I put my hea out of the window, saying, "For goo
Vau, if you want tbat man, take him!"
To my dismay, there stood Mr. Bruce not five
feet from the window. I believe he knew that I was at the window, and tbat he was talking at m all the time.
to go to Chicago. I have half promised to spend the winter with her and Mr. Bruce in Boston, and summer at tbe Shanty.

THE AUTOMOBILE VERSUS THE HORSE In the case of the automobile versus the horse the tiff, with these findings: The automobile is ready without having to be hitched up. It can be more man is unnecessary, since anybody, man o woman, who can ride a bicycle can ruu it. It i
safer, as it can be guided with greater accuracy stopped in shorter distauce and turned in less
space. It can be left standing without an attengets hungry or thirsty, never suffers from hea or cold, never takes fright and runs away, and
doesn't fall off in condition for lack of exerand even movement, with nothing in front to
obstruct the view, and no mud from flying heels, with a sensation of a mighty force harnessed to riage has notbing to compare. Sometimes in dreams we are borne swiftly along familiar roads, our feet near, but not touching the earth, upheld
and propelled by a mystic power, while others toil sensation experienced in a first ride in an electrie oaring sound. feal-inspiring to man and beast, but the substitute of rawhide for steel pinions has A motor-carriage is expensive to begin with borses to be bougbt with it that there are no apparent tban real. An electric-cab costs some
fifteen hundred dollar's to build, and the delicate and elegant private vehicles run up into the tbousands. But the expense of operation is slight. A charge of electicity for one run may be had for
sixty cents. The gasoline for an eleven-bundredmile trip, uade by a motor-carriage from Cleve six dollars; and William G. Tiffany relates that the fuel for a two days' journey through Tourain

THE HORSELESS CARRIAGE
As the "proof of the pudding is in the eating," so riding in an automobile is convincing to most skeptical that it has many advantages oy carriages can be handled was first demonstrated to the writer in a ride of two or three hour
through the congested streets of the business part of Boston.
The drlver experienced no difficulty in guidlng tric-cars, heary trucks and all sorts of traficic that


FULL RUBY JEWELED ELGIN WATCH,

The World's Standard.


 oon in London it is some time on Monday mor ing in America, it follows tbat if this principl the world, at the same moment that it was Mon ours later-that is, Tuesday noon iu London the limit, which does, in fact, exist, to the princi ple that as one moves westward the time get Before the circumnavigation of the globe there was no difficulty of tbis kind. When the sun noon, and wben it moved westward (in the common phrase) and stood over Dublin a little late it became Monday noon in that city, and then a
the western limit of the known world was reached the western limit of the known world was reached ing, when it came up over the eastern horizon an brought Tuesday morning. In this interval where Tuesday began
As discoverers pushed their way further east
ward and westward this abyss and narrower until the place where time change
$\qquad$
$\qquad$
oon of one day to noon of the day following The situation of this line depends ou the chance whether any given place was first discover
As Chlna was first' discovered to Europeans b travelers from the West, and America by voyag Where the days begin lies between tbese two, the Pacific oceau, and instead of being a straigh
line, zigzags about, dividing islands which hap pened to be discovered from the east from those There must still be many islands in that ocean where it is not yet decided to which side of the ine they belong, and where if one were put do m-morrow or yesterday. There must also manently occupied by civilized people, chang heir day from time to time. so that a ship callin ay, while another ship calling at the same tim from America would arrive on Monday.

LOW WAGON AT A LOW PRICE In order to introduce their Low Metal Whee Quincy, Ill.. have placed upon the market a Farm
er's Handy Wagon that is only 25 meles high
fitted with 24 and 30 incb wheels with tinch tire.
 Tbis wagon is made of best material through f new wbeels and fully gllaranteed for one year


DEsprte the housewife's best laid plans, or her "faculty"
for turning off work, Septen ber is a hurried and disagreeable month, and not least among its imperative demand the children's clothing and books nust be made ready for school. To be sure, the to make summer clothing entirely enoug to make summer clothing entirely conifortable, but toward the close of the montly
comes chilly nights and mornings. and warm comes chilly nights and mornings. and warm
underwear must be in readiness to don at short notice if we would aroid the habit (? of taking cold easily, which clings to one s
tenaciously through the entire winter. tenaciously through the entire winter.
In our changeable and trying clinuate the selection and care of the clothing to be worn
next the person should be made a careful study by the mother. It was long ag proren to my entire satisfaction that all
wool or just the right mixture of wool and wool or just the right mixture of wool and most healthful knit underwear, and that the "spending which spares" is nerer more certain than in its purchase. However, if one must trust the washing to ordinary help, satisfactory for winter wear, too.
If one must economize closely (and there are few who do not), the garments which are most worn should not be thrown aside as the children don these at the first approar of chilly weather; later exchange for hearier worn ones, reserring the new and warmer ones until December brings real ,
Darning is the neatest method of mending holes in such garments, patching the most cut from the legs of cashmere hose or fine knit garments, rounded at the corners, basted to position on the wrong side, with
weave running the same way as the garment and neatly cat-stitched down without turning in the edges, they will not be clumsy. Reinforce thin places, as well as actual holes, in the latter way, and when necessary the worn part can be quickly cut away and
the edges hemmed down. Rework all worn the edges hemmed down. Rework all worn
buttonholes, and replace shabby bindings with new ones made of bias strips of strong muslin or silesia.
In cutting children's garments from those of adults, hare the sleeres and the legs of
drawers a good length, and sew a loop to the bottom of the latter long enough to slip under the hollow of the foot. The wrists and ankles are rery susceptible to cold, and should be well protected.
Suspend the weight of overdrawers and petticoats from the shoulders by buttoning them to an underwaist. Two rows of
buttons, one placed two inches abore the other, make this easy.
Flannel knickerbockers are in every way better than muslin drawers, especially for
girls in the country. Cut thein three inches girls in the country. Cut thein three inches
short at the top, and attach to a cotton short at the top, and attach to a cotton
circular yoke opening at the left side; or else cut full length and fit them closely at the top by taking two darts each side of fullness in a band buttoning together on the outside, or insert elastics in hems, as you petticoat is sufficient, save in extreme cold weather. Before cutting orer old garments sponge
or wash in borax, soap-bark or sonie other good detergent, dry slightly without wringing, and press on the wrong side
A few cents worth of any good dye will other wool cloths that are dull, faded or of undesirable color. A navj-blue suit that had faded by wear was dyed a beautiful myrtle-green by dipping it in yellow dye. A heary $\tan$ serge of another mother has been
djerl the fashionable currant-red, and will be made into a skirt and Eton jacket for a
miss of fourteen, while a black and white check of said miss will come out of its bath red and black, and be worn by her younger shirt and other blouse
guimpes lhave lost none of their poral and guimpes liave lost none of their popularity; over old garments and combining two kinds

[^7]full, with most of the fullness at the back those for older girls with either three or four gores or circular, with no fullness at the front and hips, and an under-folded box plait, with a fold each side of the placket on the right side at the back.
skirts with no ornamentation excep stitching, or with feather-stitching, relset ribbon, braid or other flat trimming, are most farored for small girls. Those of older girls follow the styles of women, and have gathered frills, plaitings, overskirts, etc.
scallops outlined with two or more rows
stitching or braid are a popular finish of stitching or braid are a popular fini
for reefer, Eton and other style jackets. for reefer, Eton and other style jackets.
High aprons with yokes, sleeve-caps, b
or other ornamental derices are alike popular for young girls and misses. The aprons most farored for little girls are cut full and slightly gored under the arms, the fullness at the top gathererl into a band at the front and back and tied with straps of the sanue or of ribbon over the shoulder: or else ther are cut with a straight yoke at the back that reaches a little orer the shoulder like a shirt-waist, and a skirt like the former. Ther botll button at the back and the latter las ath butcon at the back, over collar which opens at both front and back at the necli
Do not be careless about the fit of children's shoes. Those that are too large are

make a picture. Then you hare been deep in the pickling and preserving business hare you not oftell selected certain fine spec-
imens of fruit and said. "That a picture hat would make. When one comes to make the picture a little experience will guide the artist to large fruits of bright hue. There is nothing more beautiful than a bunch of white currants, but two big toma toes are much better for pictorial purposes Grapes are tedious: each individual grape with its complicated lights and shades is as lifficult to paint as an apple. Cherries are ke currants and grapes. If you wish to produce a striking effect without too nuch time and work-and that I believe, for most of you cannot spend all sour energy on arttake a fruit of simple contour and brilliant color. I admire a picture of tomatoes rery much. Suppose you arrange three on a table, one in the background, and of the other two turn one so as to show the green stem and the puckered appearance. Now all will depend on the management of your subject These things require a dark background and a foreground of dull yellow as if ther were lying on a common table. Let the light fall on your fruit from your left side. Place a piece of dark drapery behind the tomatoes This picture will fill nicely a canras ten by fourteen inches. After drawing your but line, paint the background with just a little white darkened with yellow ocher and raw uuber. Where it is darkest use burnt sieuna and ivory-black. Mix the paints with your cross and put them on the canvas with a fross stroke by neans of swinging the hand first one way and then another. Do not paint pure black, but get your background as dark as you can by mingling the colors I have mentioned. Clean jour brush by wipbetween your palette and your left thumb and then paint the ground. Use for it madder lake,
milion and raw umber. Make it a great deal darker than a omato really is mateur artists fail mateur artists fail by trying to be too trueto nature. You have three tomatoes before you of the If rou paint them with this unifor mity your picture
will be horrid. To represent their relative position you must rary you depth of color. The tomato farthest from you must be nearly as dark as the background with a dimly defined as injurious as those that cramp the feet, outline, and although it must have a degree and for girls get those of medium weight. of rotundity it has no high light. The tomato Iost girls and some boys quickly become accustomed to wearing orershoes when they go out of doors, and it is far more healthful than sitting with damp heary shoes on. The arerage boy is more thoughtless, and must If yous chances with thick-soled boots.
If you can possibly crowd in the time, put the school-books, tablets and slates in good condition. Cover the books with strong,
pretty denim or plain ticking fitted neatly pretty denim or plain ticking fitted neatly and well glued at the corners. Then letter book-covers, tablets and slate-frames plainly itle, and see if eren Tom, Dick or Harr will not feel a new pride and thoughtfulnes in their care. Elizabetu Moretoz.

## PAINTING AUTUMN FRUITS

A lady who is a clever annateur artist says that she intends to continue practising with her brushes, and hopes that when she is an old lady her grandchildren will sometimes ay, "Grandma mustn't be asked to sew on buttons to-day, because she is painting." It certainly is a pleasant chord in the harntony of life to mingle esthetic pursuits with mothers more prosaic.
A lady once tried to quench my artistic pride by saying that she could not paint a picture, but she could darn a hole so that it looked like embroidery. It must be acknowledged that my darns are merely to stop the holes and not for embellishment, but we are 11 good wonten in our places with a diver sity of gifts. It is after the fruit is canned, the fall house-cleaning done, the winter carf day in order, that perhaps a few artistic woman can get out her paints and
of rotundity it has no high light. The tomato painted brilliantly with considerable attenpainted brilliantly with considerable atten-
tion to every peculiarity of form, the high light definite and the reflected light and the shaded side carefully treated. The tomato less prominent and yet more noticeable than the one behind requires a middle share of attention. Do this as well as you can, haring painted the foreground of white, jellow ocher and raw umber, making it lightest at the lowest edge of the canras, and let the entire painting dry.
I will tell you of a drier that I have read about and hare intended to try, but thus far have not. It is two thirds dammar-varnish and one third turpentine. This, it is said, will dry the paint so quickiy that the second painting can be applied the same day: Then painting can be applied the same day. When you undertake the final touches, aim for the whole.

Apples make a delightful subject for picture-they have so much rariety with simplicity: In arranging your groups, do not go far for unusual situations, but do not have your fruit falling from an orerturned basket. A few good pictures hare been thus arranged, but it is trite, and an orderly person is made uneasy by an impulse to put things right.
The high light on the polished surface of fruit is briglit, but it is not sharp like the glitter of glass. Fruits with a bloom hare no spark of light. Grapes and peaches should have their natural softness. in ear or two of corn makes a pleasing picture. Have the husk partly opened, so as to show the grains. Corn and apples together are the rery genius of autumn. Apples and nuts suggest Thanksgiving. Nuts and oranges
can be gotten any time during the winter. He hare a rich store at our command. In must to be satisfied with an oil-painting it sereral a coat of rarnish. Let it dry finger Frenchs and then apply with your a brilliant surfanching-rarnish. This gives and sheds dust.

## A WEARY WAY <br> The day is long. and the day is hard

We are tired of the march and of keeping guard; of days the sense of a fight to be won, Tireal of ourselves and of being alone.
And all the while, did we only see,
We walk in the Lord's own company He fight, but 'tis He who nerves our arm And ont of the storm which else might harm
The work whe storm he brings a calm.
He makes it easy. for He works too
The days that are long to live are His-
A bit of His bright eternits:
And close to our need His helping is.

## FALSE ECONOMY

She was not a young housewife, and so could not be excused because of lack of experience. She was adrising a young friend to boil the coffee-grounds a second time instead of discarding them and making fresh coffee. She said
"I pour off what is left of the coffee after breakfast, then to the grounds I add more water and boil vigorously until the water is strongly colored with coffee, after which I pour it off, add it to the rest and reboil the whole for breakfast the next day, and my family never know the difference, and they are quite particular.'
This sounds very well, and under ordinary circumstances might have been an economy: Unfortnnately, howerer, the lady in question did all her cooking on a gas-range, and what she sared by reboiling her coffee was lost twice orer when her gas bill was presented each month. But ignorance is bliss, I suppose.
This is just one instance of the false economy practised in so many households. So often housewives will plan and contrive ; will use up all the odds and ends of meat nd regetables in made-orer dishes, requir ing not a little ingenuity to think of them, in order to make both ends meet and save on the week's expenses. This is rery commendable, and made-over dishes are often every bit as palatable as fresh dishes: but these same housewires, after striving all the week to make some headway, will suddenly spend all they hare gained, and more, for some fruit or regetable entirely out of season, like tomatoes by the pound in March, paying a very high price for same, when some other regetable obtained in season, or canned regetable, would be much more palatable and certainly more within the range of the household allowance
We are all of us subject to these attacks of false economy, and it is not lack of intelligence, but want of thought which leads us astray. Stop and think. What false economy are you practising?

Emma Lolise Halce Rowe.

## EgG.SHELLS

Through the summer season eggs are plentiful, cheap and freely used. Unless a rery large flock of chickens are kept the shells are not all eaten, and go to waste. Have a box or jar near the kitchen door to receive the surplus egg-shells, and sare them to mix with winter feed. A great guantity can be broken down into small space when dried, and will answer the purpose of orster hells, which must be bought Gre.

## MEAT RELISH

Cold meat may be utilized in the following ash. fill a deep dish nearly full with boiled ice, pour on a little grary, place the meat orer this, cover it with stewed tomatoes, spinkle with bread-crumbs and add small ieces of butter. Bake until brown. Serre rery hot.

## BATTENBERG DOILY

This charming doily explains itself, and is ery easily made. It forms a handsome pin-ushion-top. This pattern, when made with narrow satin ribbon and sewing-silk of ushion of white satin, finished with a ruffe, makes a lorely cushion.

Mrs. H. L. Miller

## TWO

I dreamed I saw two angels hand in hand And very like they were, and very falr.
One wore about his head a golden band; A thorn-wreath crowned the other's matted hair. The one was fail and tall, and white of brow ; Shed, hike an inner altar-lamp, a glow Upon his beautiful uplifted face.
The other's face, like marble-car'ved Grief, Had placid brows laid whitely o'er with pain, and eyes like violets long drenched in rain

Then spake the fair sweet one, and gently said, Between us-Life and Death-choose thou th By him thou lovest best thou shalt be led " I pondered long. "O Life," at last I cried, rchance 'twere wiser Death to choose; and y soul with thee werc better satisfied! The angel's radiant face smiled swift regret Vithin his brother's hand he placed my hand. "Thou didst mistake," he sain, in umderbre He with the thorns is Life, and I am Deat

Laura Spencer Porter.

## THE DAUGHTER OF THE HOUS

EERY daughter cannot afford to stay at home and shift the household cares a little from mother's shoulders to they do not want to do it when they can. The condition of things has change much in the last few years, and girls are full of the modern idea of working for money, o being independent. I believe every girl should be so educated that if it is necessary she can support herself by her own work. But is it right for girls who have comfor table homes and parents who need, if no their work, their gentle,thoughtful care,thei ministry in making the home life brighte and sweeter, to insist on going out into the world to earn money, thus perhaps taking own support and to help those dependent upon her? Girls, consider a little the question from all sides before you decide to become a wage-earner in the world outside of home Mother has been working for nearly twenty years, perhaps, doing everything she can to make home pleasant, and denying hersel that you may have the advantages of educa tion. If no other denial has been necessar she has at least relinquished your compan
 give the sunshine of your young life to home, to father and nother, until some one shall persuade you to help build another home? Then when the cares and experiences of a woman come you will realize more fully the burdens mother has borne, and be thankful for all you have done to add to her comfort and happiness. If this "prince among men" the less fitted for independent work in the world because you have given some of your
heart mother has so long borne alone. I you have been given a musical education sometime play and sing the oll music father likes. Maybe he will go to sleep the while; but never mind, he has enjoyed it just the same.

Now a word to mothers. Do not let you "selfish unselfishness" prevent you from accepting the loving ministrations your daughter is anxious to give you. You say you want to shield your daughter from hard work and care. But are you not robbing hel of one of the highest sources of happiness the privilege of doing for others? You are dwarfing not only your own life, but hers. You are too much encumbered with care to be a companion for your daughter, and she is forced to seek companionship outside of home. She will either grow selfish and hardhearted or be made unhappy by the life she is forced to live, and sirk into laziness at home or go out to work and earn a living outside the home. I believe in nine cases out of ten where daughters are selfinh they have been made so by the self-sacrificing mother oo moman lias a right to rear her clild so No woman has a right to rear her cluild so that she becomes selgsh and heartless. I she does it she must expect to reap what she las sown. A daughter has the right to the companionship of a cheerful, happy mother She has the right to feel that she has a place and a work in the home that no one else can take, and it is a wrong that can be made up to her in no other way when she is defrauded of this right.
a Maida McL.

## THE HOUSEHOLD

One secret of having a happy family is a due adjustment of work to rest. Nothing is gained by hurrying to meals, at meals or after meals. If possible take at least a half hour before and a half hour after your mea in the easiest possible posture. Hammocks constitute an article in my creed. No other rest is quite equal to that which we get after dinner, when stretched out in a hammock on a shady veranda. The original purpose of a Sabbath, it must be remembered, was to meet thatgreat law of human nature, that we need to rest at least one seventh of the time. Remember that nothing is gained by wearing out faster than you can recuperate.
There has been some gain in the way of outdoor work for women, but there still re mains a shame associated with doing thoroughly honorable work in the field. I have noticed that those races succeed in buying up and retaining our farms, whose men and women are not ashamed to work together either indoors or out. Can anybody ex plain why it is a disgrace to a woman to toss hay or help her husband in the potatofeld? I should certainly not argue in favor of a degradation of woman by imposing upon her the most menial employment, but I do believe that husband and wife may wisely co-operate in many forms of work which are now carefully leept dissociated. It would be better for both parties to more

young years to lightening the load of care thoroughly understand each other's difficuland brightening the lives of father and mother. We are better fitted for greater serrice by the faithful performance of the lesser It is the young people, the sons and house. What a comfort it is to a woru the weary mother to have a daughter to smooth out little difficulties, fill the gaps and relieve by her young strong hands and ready wit and-brain the strain on body, brain and
ties, and enter into closer sympathy in mall, every-day affairs
Have you ever noticed in a family of half a dozen that one has the controlling influence over the others, in a quiet, undemonstrative way? It certainly rarely occurs that all of the children harmonize; but some will draw together, while others repel each other. This is hard to explain, but it is a sort of hypnoism. I think we should take adrantage of it
by carefully using the stronger ones to influence and advise the weaker. I know a pastor who trained a dozen of his young people paying comparatively little attention to the rest. Those upon whom he laid most of his care did his work for him with the rest. As a rule the oldest boy in the family, or the oldest girl, should be the right arm of the mother to influence the rest for good.
The English custom of a bed for each person is at last getting to be an American cus-
tom. I believe that economy in every other

This is a remedy frequently prescribed to children under ten who seem indisposed It furnishes a simple food and allows the digestive organs a chance to rest and restore themselves to their normal condition.
Lime-water mixed with equal parts o sweet-oil is excellent to apply to a burn
where the skin is not off. where the skin is not off
For the potted plants during the winter season lime-water will prove indispensable if earth-worms have found their way into
the pots at the time of repotting, for they

direction should be practised before we begin to put two children to sleep in the same bed. I should sooner expect safety from three or four in the same bed than from two. The nervous temperaments will surely be drawn upon by the more phlegmatic, and ultimatcly they will be weakened if not diseased.
The restoration of the curfew-bell meets a growing sentiment in the American people that we have gone too far in the way of individual license, under the general head of freedom. The police reports of such cities as Denver and St. Louis tell us that, on the average, the arrests of young people have decreased one half where the curfew law has been enforced. The old law, "early to bed and early to rise," was based upon human nature We are stronger to endure nerve work as well as muscle-work in the early morning. A series of experiments recently morning, A series of experiments recently us that pupils are in best condition for solshat pupls are in best ing proble in thar in places the body and brain in as go

## Lucy Powell.

## REFRESHING SWEETS

Those who live at a distance from stores cannot always secure refreshments for unexpected callers at short notice. Ices and cooling desserts cannot be offered at the very times when they seem almost indispensable, and they cannot even be made at home if ice cannot be secured; but if oranges are kept on hand, a cooling and delicious dainty may be quickly prepared in the form of candied orange, and the same idea might be carried out with other fruits. The candied orange will make a pleasing change from the usual manner of serving the fruit whole, or simply sliced with sugar or with cocoanut and sugar.
Separate the orange into its fine sections without breaking or marring the fine white skin which divides them. Place these sections on dishes, and let them stand where it is warm until the outside is perfectly dry. Put in a granite saucepan one pound of granulated sugar and one gill of boiling water ; stir on the fire until the sugar is dissolved; boil rapidly until it will form a thread, add two tablespoonfuls of vinegar, and boil continually until it is brittle when dropped in water. Now watch carefully, and the instant it begins to turn a straw-color take from the fire and put the pan containing the syrup into a pan of boiling water. Lay a secsyrup into a pan of boiling water. Lay a sec-
tion of the orange on a greased fork, and dip into the syrup until it is thoroughly coated, into the syrup until it is thoroughly coated,
then place it on greased paper. Dip the pieces of orange as gently as possible or the sugar will become cloudy, and if much stirred the candied orange will not look clear and inviting. If the syrup begins to stiffen it may be heated once more without stirring, being careful not to let it scorch; but when stood in a pan of boiling water it does not harden quickly.

LIME-WATER FOR CHILDREN AND FLOWERS
In every home where these blessingschildren and flowers-are found lime-wate should be kept prepared for frequent use and it is so inexpensive and so valuable that a fresh supply, ought always to be found in the family medicine-closet
If any of the little tots show a trifling illness from indigestion, it is claimed that a diet of milk with one tablespoonful of limewater added to the quart will give relief without any other medicine.
will soon exhaust the nutriment of the soil and leare the plants in a sickly condition An occasional application of weak lime injuring the plat injuring the plants, and the fresh green ap pearance of the leaves will quickly show the good results of this simple remedy
To prepare the line-water, select a large wide-mouthed bottle, and fill it to the depth of three or four inches with slaked lime and let it stand for twenty-four hours filled with clear water. For medicinal purposes filtered rain-water or any pure water will do The water will take up only so much lime When it is "saturated," as it will be in the time given if the bottle has been shaken once or twice, pour the water off through a fine muslin strainer, and set it away for use, well corked, in a cool place, and it will be ready for either the babies or the plants.
S. W. Humphries

## BATTENBERG MEDALLIONS

These beautiful medallions can be put to many uses besides the following centerpiece Four each of these medallions are joined at the cross upon the ends of the narrow one and upon the leaf of the other, and then a center of hemstitched linen is joined to them so that each corner extends up between the two crosses upon the top of the leaf and flower medallion. The little spaces between the linen and the lace are filled with twisted or buttonhole bars. Five, ix or seren the narrow medallions can be sewed to the the narrow medallions can be sewed to the a scalloped edge and flowers embroidered a scalloped edge and llowers embroidered
upon it. Four of the larger ones can be upon it. Four of the larger ones can be
joined to form a tidy or doily. The reduced joined to form a tidy or doily. The reduced
pattern of either makes landsome tie or pattern of either makes landsome tie or
sash ends when made of the point-lace braid.

Mrs. H. L. M.

## A WAY TO CAN FRUIT

Not being very experienced in housekeeping, I never thought there was anything could do better than my sisters who writ for the Farm and Fireside, but I would like them to try my way of putting fruit into the cans, and do not be afraid of the results, for I have tried both ways and find break less cans; in fact, I have never broken but one can in putting the fruit into the can with a large spoon, the can slightly tipped, so as to handle easy for the first two or three spoonfuls, or more if you can handle them; then set straight. Do not bother to heat the can nor wrap with a cloth or other heavy material; you will find it safer not to do so, and a great deal of time is saved. I also treat jelly and syrup in the same way.
My way ofmaking currant jelly saves the currants as well as the juice. Clean about four quarts of currants, as if to can, put in a jelly-pan or stew-kettle with three pints of water or iust enough to bring water to top of the currants. Let come to a boil, as if to can, then strain through a cloth, not pressing, and let drain for one half hour Then for two parts of juice add one par sugar, and boil until it jellies; for the currants add one and one half cupfuls of vinegar, one teaspoonful each of cloves, allspice and cinnamon; let boil for one half hour, being careful not have spiced currants; or if the currants are green can them for pies. I have told a number of my friends these receipts and they now use no other. Fisances.
vacation
It's feed the piges to-day. ny boy.
And fill the ior sess' mangers. Then cut the weeds salong the road,
They look so pad to They look so bad to triangers
It's hunt the eggs and wate the It st hunt the egss and waten the
And give the sheep their ration. Then weed the onion-bed
Im h having my vacation.

Irss get a pail of water, Joe,
The kettles all need flling


But run and humt the bab
It's bring met this. or carry that.
All day, sine sehoon was ore
yo playing ball or truant now,
No hinnting larks with Rore
Ido what everrbbody says.
And work like ill creation.
Because, 5ou know, 1 am a
And having my vacation.
Lalia Mitchell, in Farm Journal

## the edible tomato

TERE is no regetable, with perhaps the exception of the potato, capable of such a rariety of treatment as the hich the system seems to crave in warm weather; it is easily raised, it is cheap if you hare to buy it, and it is perhaps the best allaround regetable we hare. It makes good sauces and preserres when ripe, and in its
green state it makes most delicious pickles, green state it makes most delicious pickles, both sweel and sour.
It is a pity that the busy housewife usual$1 y$ contents herself with stewing them, the
rery poorest way of serving them, for they are much better baked, broiled or scalloped, or cooked with rice or macaroni.
To bake them, take one half dozen fine ripe tomatoes and remore the skin. This is done by plunging them in hot water,
and then the skin will pull right off. Put and then the skin will pull right off. Put
these into a shallow baking-dish so that these into a shallow baking-dish so that
they will just touch each other, and fill the vacant spaces with bread or cracker crunubs and little bits of butter. Squeeze through a colander two or three tomatoes, and add this juice to the dish after mixing with it a salt-
spoonful of salt, a little pepper and a tablespoonful of salt, a little pepper and a table-
spoonful of butter. Sprinkle over the top of spoonful of butter. Sprinkle over the top of
the dish some more crumbs, and bake about the dish some more crumbs, and bake about
half an hour. If you are fond of cheese, a grating of this over the top instead of breadcrumbs makes them rery tasty.
The Spaniards are very fond of frying then. Slice them and fry them in a little fresh butter and a slice or two of green
peppers. Add a little pepper and salt and peppers. Add a little pepper and salt and
a young onion sliced. These are nice with cold meats and are quickly and easily prepared.
They are delicious broiled and laid on slices of buttered toast, and are particularly
nice this way for breakfast or supper. Each nice this way for breakfast or supper. Each tomato should be cut into about thre
and broiled on a small-tined broiler.
and broiled on a small-tined broiler.
The Southerners have a way of preparing
them for winter use which is rery handy if them for winter use which is rery handy if you hare quantities which wonld otherwise
go to waste. Take fine ripe tomatoes and go to waste. Take fine ripe tomatoes and
seald them and get off the skins. Boil scald well with a little salt, but no water. Boil till they are rery thick, then spread on plates and dry in the sun. In two
or three days they will be dry enough to pack away in bags, which should be hung in a dry place.
dish. After cutting the tomatoes in harty put them cut side down in a frying-pan Which has in it half an inch of hot fat. Let them cook till they are tender, then lift them
into a baking-dish. Pour orer them a little sweet-oil, and then sprinkle with one cupful sweet-oil, and then sprinkle with one cupful
of bread-crumbs, chopped parsley, one small of bread-crumbs, chopped parsley, one small
onion and pepper and salt. Bake twenty minutes in a hot oren.
Greex-tomato Pickle.-This is very
tasty, and the oil gives it a richness that the ordinary pickles lack. To one peck of green tomatoes sliced rery thin add two quarts of
onions also sliced. Sprinkle with salt, and the next moruing drain through a sieve, then boil them in vinegar till they are tender. Put into a quart of fresh riuegar two pounds
of brown sugar, one half ounce of mustardseed, one half ounce of ground mace, one
tablespoonful each of celery-seed and ground tablespoonful each of celery-seed and ground
cloves; let these boil together for a few moments, then pour over the tomatoes, which
have been drained. Put them in your picklejare and then stir in one half tablespoon ful of cayenne. one half tablespoonful of ground mustard and one hale bottle of salad-niil,
these latter laving been well inixed before and
good. One peck of green tomatoes sliced, si onions and six green peppers chopped, one
cupful of salt sprinkled throngh, and let cupful of salt sprinkled throngh, and let them stand orer night. In the morning drain thoroughly, then boil fifteen minutes in one quart of rinegar and two of water. Drain from this and make a syrup of three quart of rinegar, two pounds of sugar, one half pound of white mustard-seed, two table-
spoonfuls each of clores, allspice, ginger and cinnamon. Put spices, which should not be ground, into a cheese-cloth bag. Cook slowly two hours, then put in bottles and cork. This is a tart pickle notwithstanding the sugar.
East India Pickle.-Rich and sweet. Select firm light-green tomatoes, cut them in slices, and put them in a weak brine made by putting a cupful of salt into a gal lon of water. Let them stay twenty-four hours, then take them out and rinse in clear cold water, and put them in a preserring kettle. Corer the tomatoes in the kettle with vinegar, putting two pounds of sugar to each quart of vinegar. Add also to each quart of rinegar one ounce of ginger-root Cook the tomatoes till they are clear and transparent and perfectly tender, but no till they break. It will take about fifteen minutes after they begin to boil. As soon as they are cooked stir in cassia-buds, clores, mace and stick cinnamon, one ounce of each being allowed to each quart of rinegar. Put cloth. These keep indefinitely and are delic ious.
сноw-сноw. - Cut small one half peck of green tomatoes, one quart of ripe tomatoes. two large cabbages, one dozen white onions and two dozen cucumbers. Mix them and sprinkle salt well through them. The fol lowing morning drain off the brine and cover them with boiling rinegar, one and one half gallons, in which has been boiled one pint of grated horse-radish, one half pound of mustard-seed, one half ounce o celery-seed, one half cupful of ground pepper, one half cupful of turmeric and of
ground cinnamon and four pounds of sugar. ground cinnamon and four pounds of sugar.
They should be kept in jars in this liquid They should be kept in jars in this liquid, drain the vinegar from that portion you serre.
Tomato Catchup.-Let your tomatoes be perfectly ripe, and put them in a shallow saucepan. Add salt, a few slices of onion slow fire till it is quite thick, and then rub through a hair-siere. Let it stand a day then bottle it, seeing that the bottles are carefully sealed
Universal Pickle.-This is a cnrious old-fashioned receipt, yet rery useful to use up odds and ends. It is rery tasty, too and helps down cold meat in an appetizing manner. Take six quarts of vinegar, one
pound of salt, one quarter of a pound of ginpound of salt, one quarter of a pound of ginger, one ounce of mace, one half ponnd of
small onions, one tablespoonful of cayenne small onions, one tablespoonful of cayenne pepper, two ounces of black pepper and two Boil then or mustard and celery-seed Add from time and when cold put ables a you hare-beans of all kinds, firm tomatoes sliced, carrots, onions, turnips before they are mashed, beets, cucumbers, anything except soft regetables like squash. Mix keeps forerer yoll add new ones. Thi

## SOME BLUEBERRY RECEIPTS

Extra Blueberry Ptdding.-One cupcupfuls of four, cupful of sour inilk, four of soda, one quart of berries. Beat sugar and butter to a cream, then add the eggs well beaten, then the sour milk in which you hare dissolred the soda, then the flour, and lastly the berries. Wring puddingdeep dish, pouring into this your batter dut into a lettle of boiling water, boil thre Put into a kettle of boiling water, boil three hours,
Plain Blueberri Puddiag.-One pint of flour, one egg, one half pint of sweet
milk, one and one half teaspoonfuls of baking-powder, one quart of berries. Beat the eggs to a froth, mix this in the milk then stir in the flour, baking-powder, and lastly the berries. Steam. Eat with cream and sugar. This is also good baked.

Blefberre Demplings.-One quart of flour, one pint of milk, one tablespoonful of sugar, two tablespoonfuls of baking-powder, ting out with a biscuit-cutter. Roll flat, edges, turn together, and either stcam or edges, turn together, and either st
bake. Serre with sugar and crean.
Blceberby Cake.-One tablespoonful o
of milk, one teaspoouful of saleratus, two flour. Beat the sugar and butter together, then add two eggs. milk and flour, and lastly a pint of berries. To be eaten warm.
Blueberry Patties.-Make same as for blueberry cake, and bake in little patty-pans instead of oue large cake. A pretty change for a summer tea.
Blteberrit Tcrnovers.-Plain pie-crust answers best, as the berries are rery rich. Roll out crust, sprinkle dough with four and sugar, lay the berries on, then sprinkle the berries with flow and sugar; now wet the edges of dough, turn over, and pinch with the fingers to prevent the juice from running out. Nake slits in top of turnorer

## FROM SUNDAY'S ROAST

There is nothing which will more quickly dispell the family appetite than the reappearance of Sunday's roast in its original form. Thinly sliced cold meat is uot to be despised for supper, but do uot, I pray you, let it be seen too often at breakfast. There are so many sarory dishes to be devised from a roast that it is quite as great a source of enjoyment as in its first state. Hash has fallen into disrepute, but when properly made it is very good indeed
Try this way: Remore fat and gristle chop medium fine, and put in a saucepan with water enough to come up through it. Let it simmer for a few minutes, then season with salt, pepper and a little chopped parsley: Rub a tablespoonful of butter smooth with one and one half tablespoonfuls of flour, pour some of the grary orer this till it is like thick paste, then stir into the meat. Hare ready two hard-boiled eggs for each quart of meat, chop fine, and add just before serving. This is like the famous dish of the nursery rhyme, "fit to set before the king.
Casserole of Rice and Meat.-Boil one cupful of rice in two quarts of boiling rater until tender, drain, and line a mold. Fill with a large pint of cold chopped meat well seasoned and moistened with one cnpful of tomato sauce or with one cupful of milk in which is a beaten egg. Cover with the rice, and bake abont twenty minutes. Serre with tomato sauce or some of the grary left from the day before.
Mock-chickea Salad.-Scraps of veal, mutton or beef may be ased for this. Nince the meat, and to each cupful add two
small cupfuls of very finely cut cabbage, small cupfuls of very finely cut cabbage, one teaspoonful of celery-seed (more if desired), salt to taste, and any good salad dressing. This is delicious in spite of its cheapness.
Frichssee. - Chop the scraps of meat and place in a stew-pan with a little water, salt, half cupful of milk lump of butter. Add one ing. Serre on slices of toasted bread, and be sure that the dish is hot when sent to the table.
Meat Cheese.-Boil the meat scraps which you have on hand-the more kinds the better-in a very little water until soft enough to mash to a pulp. Add salt, pepper and a little sage, put in a dish with a plate and heary weight on top. The next day urn out carefully, and serve cold. Cut the slices with a sharp knife. It is rery nice for supper.
Green-pepper Hish.-To every pint of finely chopped meat add one large green pepper minced and seeds remored. Put into a stew-pan with a little hot water, one tablespoonful of butter, salt to taste. Let cook till but a few spoonfuls of the water remain. Garnish with parsley, and serve with a border of mashed potatoes.
Meft and Vegetable Stef.-For this the meat need not be so fiuely chopped. To each quart add two potatoes sliced, one handful of lima beans, a small tomato chopped, one onion, some parsley, and salt and pepper to taste. Thicken the grary, thankful. To render it altogether a meal to thankful. 'To render it altogether a

Mart M. Tillard.
"SHE THAT HATH EARS TO HEAR, LET HER HEAR
Very few people know that a little blueing added to each water through which clothes pass will greatly improve the appearance of the clothes. But it is true uerertheless. The finest laundry-work is cleared in this wise. A small portion of old-fashioned indigo is dissolved and adrled to the boil. Indigo is used in preference to any other blue, as it will not settle in spots, and liquids or powders might. After the cinthes loave been boiled in this water they are thrown into a
tub of blued suds and passed from that into the blue water proper, and they come out of this rinse as white as snow
rery few people know that a little blue added to the starch greatly improves the ar ticles starched, and rery few people know that a little starch added to handkerchiefs add greatly to their appearance. Very few people know this, and the most of those who do not know are too skeptical to try it. It is not necessary, neither is it desirable, to cold starch them as you would your collars and cuffs and shirt-waists, but if you would hav your handkerchiefs triumph of the laundr art, just stiffen them slightly. At least try Iron them damp, elubroidered side down, and you will be.delighted.
Your shirt-waists starch stiff in cold starch if yon want something extra nice, bnt your collars and cuffs send to the laundry.
Nuch may be added to the beauty of a washing by a symmetrical arrangement of the clothes on the line. The line should first be carefully rubbed with a damp cloth, then such large articles as sheets, table-cloths, skirts and nightgowns should be shaken thoroughly and hung. Arrange all article of the same character in groups. For instance, all the pillow-cases, napkins and handkerchiefs should be placed by themselves. This systematizes yonr washing and gires it a rery neat appearance. As soon as the clothes are thoroughly dry they- should be taken in, as otherwise they collect dust, are tossed by the wind and lose their freshness.
Have you ink-stains on any of your white handkerchiefs? Apply lemon-juice, and patiently rub the inky spot an hour, perhaps two hours; but lemon-juice and persere ance will remore the stain
Is there iron-rust on any of your clothes? Apply dry oxalic acid, rub quickly and im merse in warm water. If the first appli cation prores insufficient, try a second; but do not allow the oxalic acid to remain on the cloth long, because it will eat it full of holes. There is no danger of such an accident if you work quickly. If you are afraid of the acid try lemon-juice and salt, That requires more time and more patience, but will remore iron-rust or mildew. Any of these receipts should be applied before the articles are washed, for reasous which are apparent.
One more word. Do you use the heary old wooden tubs? Sell them or use them old wooden tubs? Sell them or use them,
for kindling-wood and buy new, light, galranized iron tubs. Quit breaking your back. Margaliet M. Moore.

Iargahet M. Moore.

## PENMANSHIP

Why is it that some persons aim to make their penmanship utterly unreadable? I have a correspoudent of this class, not notch, uses good language and all that, bn her letters are painful to me because the are almost unreadable. The only fault is in the formation of the letters, which do not conform to any system of peninanship that I ever saw. And while I try to solve the I ever saw. And while Itry to solve the
penmanship I am also puzzling over the penmanship I am also puzzing over the problem, "Why does any person of common sense write in this way? All readers ar writing, especially in letters of business writing, especially in
that ought to be plain

I once heard a gentleman remark on the peculiar ability a friend of his displayed in being able to write as well with his left hand as with his right. On being questioned he admitted that one handwriting was a easy to read as the other; that his friend was a lawyer.
A famous lawyer was once engaged in trying a case with another high up in the his colleague that was unreadable. He gare the letter to a frieud, promising her a liberal percentage of the fee if she would translat it. She earned her reward after some hours work on the epistle. This writing consisted of two or three letters at the beginning of a word, followed by an irregular scrawl

I suppose everyone has heard of the two


## MY WORK

I come to thee, O Lord, for :
To do thy will;
Help me, o Father, in this world of duty, Iy place to fill

I may not go and labor in thy vineyard,
Where through long hours Brave men and women toil, and from thy presses The red wine pours.
My work at home lies with the olive branches To train them fitly for the heavenly garden Needs all my care.

I may not, in the woods and on the mountains, At home a little flock of tender lambkins Tis mine to keep.
Thou givest 'us, thy servauts, each our life-work io trumpet tone
Shall tell the nations in triumphant pealing How mine was do
But 'twill be much if, when the task is I give thee back, unharmed, the precious treas Thou gavest me.
-Mrs. M. P. Handy, in the Union Signal.

## the lonely

Ware all at times inclined to be iscontented with the ordinary intercourse of life. The occasions
or anything like real communion are very feiv. The trivial and commonplace, the transitory and fleeting, absorb most of meeting our fellows feeling hollow and empty, with a latent shame in us that we have given away to meaningless gossip and senseless babble, however harmless.
We are timid about trying to diver thought and conversation into deeper chan nels. We fear to be called eccentric or
pedantic, to be looiked upon as a moralizing bore; of one who believes himself to be wiser or better than the average in his self-
appointed office of rebaking the follies and appointed office of reb
trivialities of the day.
This prevaillng pettiness destroys or be numbs much that is fine in human nature Many who are too timid to be innovators, and dread to be called original, suffer from mental hunger and the sense of lonelines level of chaff and petty detail where society now decrees that human beings may meet They find themselves caught in the web of fine but tenacious meshes, where people spend time togetrer wind saying any thing, where they congregate without having where they see the surface without knowing anything that lies under save by stray glimpses and broken hints. Many live long years without opening the heart-lubricat ing the being by free and full confidence and interchange of thoughts and feelings that lie in the sanctuary of the mind. Thus. re pression puts straps and draws cinches in
our mental processes, and may lead to atrophy or violent rebellion.
This is a tragic kind of loneliness and soul hunger-to know that before God we might have been something more and better, might have lived a grander, braver life, might have or have living bread to such as are in need, who thirst if the Liliputians had not caugh and fettered us hand and foot. What we see is a fine position-perbaps much worldly respect, good conneetions, all of the regular kind. Society, so called, has to answer for the crimes of those it has choked and bound
with the most tennous bonds, whose rewith the most tenuous bonds, whose re-
pressed impulses toward good have finally carried them to dangerous and unholy provocations. A struggling creature with yearnings toward the better life, toward ac tion, sympathy, self-sacrifice, noble devotion, yet hedged in a little paddock behind a juicy, with no one to herbage is the thing that struggled for utterance-here is tragic loneliness.
Deplorably many are the "good" people who insist on pettiness. Be as small, as narrow-minded as you please, but think no the same little mincing steps on the keep to the same track, never dare nor adventure. So the
deadiest loneliness is often felt in what
is called the world, where all faces seem nameled, all eyes might as well be made of china as of living organism. Oh, for a spark of soul, for a true word that shall leap out because it cannot be expressed, a gleam of recognition that makes luminous the cloudy day so fraught witl darkness and doubt, discouragement and hopelessness!
The human gateways of sympathy often seem locked and barred, and those who need to enter get no response to their knock. Ve look searchingly in faces, and we say to those polished and polite images, "Have you lived, have you suffered, have you wept over your dead, have you been stirred to your being's core by great devotion, by heroism and mighty truth or transcendent goodness? If so, wherefore so cold, so shut up in self, so repellent to confidence and human interchange? Alas! poor creatures, are you, too, prisoners grown hopeless that any one can peak to your inner selves, can know what you think?'
But there are other moods and other days, when all faces look open like gentle books; and you read on each some little word of cheer. One is humble and kindly, another is patient under affliction, another, if unrecognized, is still sweet and blithe, another has lost all, and can still live and bless God. The commonplaceness, the mediocrity, has gathered a kind of beauty. We read its hieroglyphics and see they are compounded of spiritual facts. If people speak to us of nothing great or good, there is still something about them that does speak. It blabs, though they are unconscious. The essence is always escaping, though we think we have it in sealed bottles.
So our hearts say to us, "Who is not lonely in all the world?"' The loneliest are not those who dwell in field or forest or on desert islands. They are often in the busy throng. Their eyes are wells of longing. The world is full of people. Still they are unsatisfied. They have a secret, but the person to whom it may be told has not been found. The poor farmer's wife looks the hunger of her soul; but it is not the year's hay crop that is troubling her, but the fact that she has "no one to speak to." The successful business man, lawyer, merchant knows, with all his telling and doing, bustling and contriving, there is a lonely place within. Still he is alone in the midst of his successes. The greater he is the more

We carry this pain and ache with us, un conscious that it is the divine thirst that God only can fill by giving us ever larger and larger measure of himself. The more that is given, the more we long for the supreme thing that shall make us understood by others, and better to understand ourselves We have stammered only two or three words of the volume that is in the soul. The mystery of being is there intrenched. It does not dwell in company. It eludes definition. not dwell in company. It eludes defnition. friend, probed deeply into the recesses of the human heart, touched profoundly those secluded regions where the soul hides. Therefore, the eternal gratitude of the race. He, the lowliest man God has sent into the world, became the most companionable, the most intimate revealer. Our loneliness aches within us, but it is the sign of promise. We were lost indeed should this divine pain cease, were we callous to the intimations of growth and expansion that make yearning the foretaste of fruition.-The Christian Register

## SIMPLICITY OF SPEECH

The coxcomb and the egotist use "great, swelling words." The scholarly man, the man of genuine polish and refinement, uses language beautiful for its simplicity and directness. The former are vain and desire to make a display; the latter are humble and speak to instruct.
The writer once listened an hour and a half to the scholarly, refined Anson Burlingame, of Massachusetts. It was during the presidential campaign of $\mathbf{1 8 5 6}$. He was adrocating the election of John C. Fremont. Oh, how eloquent and impressive he was! How scholarly! and withal simple as a child. He did not "make a speech," but in great simplicity of language talked to his vast audience. And how the people hung upon his words! Get tired? Speech too long? Not a bit of it. Everybody was sorry when
stand every word he uttered; and then lie was so instructive, and his illustrations were so apt and simple.
The common people do not carry dictionaries with them, either in their pockets or in their heads. The speaker who would reach and interest as well as instruct them must recognize this
Truly great men are noted for the simplic ity of their style and the directness of their action. They not only use the simplest and most expressive words, but avoid all unnec essary words? Take, for example, Lincoln's renowned speech at Gettysburg. Can you find in it an unnecessary word? Can you find there a word the meaning of which the common people do not readily grasp? Ed ward Everett, who delivered the great ora tion on that same occasion, said that Mr Lincoln condensed into twenty-eight lines of long-primer in an ordinary book what it
took him, with all his scholarship and polish an hour and a half to say. Why? Becaus Lincoln expressed the great thoughts of the occasion in a few sentences of simple, plain English. And who reads to-day Everett' masterly address on that occasion? Who does not read, study, and admire the slior simple address given there by Abraham Lincoln?
But over and above all the model speeches of great men, Christ's "sermon on the mount" stands out as the perfection of true oratory Study it, notice how beautifully simple the language, how natural and expressive th illustrations, how appealing to human sym pathy the sentiments uttered, how impres sive to the human soul the truths declared Well did Daniel Webster say, "No nortal
man ever produced that sermon." He who man ever produced that sermon." He who
uttered those truths, so admirably applicable to the hopes, fears, desires and aspiration of the human soul, surely knew all about and fully understood man's real being and condition.
Horace Greeley made the New York "Tr bune" a revolutionizing force in this country. How? By clothing his masterly editorials in the language of the common people. His paper found its way into the homes of the farmers, mechanics, artisans and common toilers of America, and when once there, no other paper could dislodge it. Mr. Greeley from the standpoint of a politician, states man and reformer, lived, thought and wrote on the plane of the common people, and the whole nation read, admired, and finally the great majority of the people came to believe
in and pronounce in faror of the reforms he in and pron
advocated.
May not the speakers and writers of to-day gain some valuable hints from the facts? Especially may not the young ministers o our church profit from these suggestions Let the highest available attainments in polish and refinement be achieved. But with all this, in the presentation of truth let the style and diction be within the grasp of the common people. Do not aim to appear scholarly. Do not use "great, swelling
words" of men's wisdom. Be direct, plain, simple but impressive and effective in both simple but impre
But some, in attempting to be plain and simple in a speech, fall into the mistaken notion that to be so they must be rude, uncouth and boorish. Not so. Read Bunyan' "Pilgrim's Progress;" read "Robinson Crusoe;" read the "sermon on the mount." The language is the very perfection of simplicity but not a rude expression is to be found in any of those masterly productions. The language is simple, the style chaste, and withal, the thought most elevating and im pressive. You can do as well.-The Relig ions Telescope.

## A CURE FOR SLEEPLESSNESS

For the purpose of inducing sleep the following remedy is valuable: A warm ful bath taken in the evening just before retir ing is a valuable means of inducing sleep The bath should be at a temperature of from one hundred and two degrees to one hundred and four degrees. The patient should remain in this bath for twenty minutes, and while in the bath should be rubbed vigorously b an attendant. The head should be wrapped in a towel wrung out of ice-cold wate After this warm bath the temperature of the water should be reduced gradually to about eighty-five degrees for the purpose of cooling the patient, and then he should be dried thoroughly and put to bed immediately preferably without being allowed to walk o make any muscular exertion at all. A rub ber bag containing warm water should be applied to the feet, the room should be made quiet, with all possible conditions conduciv to sleep.-Good Health.

## Are Yoil Evep Depressen?



A College And Seminary For Women

THE WESTERN OXFORD, OHIO
$\mathrm{T}_{\text {hi forl }}^{\mathrm{HE} \text { fortsixth year of this institutution for the }}$ 13. higher education of women opens Septeniber
1899. The college is located on an eminence 13, 1899. The college is located on an eminence commanding picturesque views of the ful regions of Ohio. A rolling campus of sixty-
five acres contains fine athletic grounds and hee acres contains fine athletic grounds and
beautiful walks well shaded with trees. Students
are limited to 160 . Two large buildings afford are limited to 160 . Two large buildings afford
ample facilities for all. Particular attentiou is
given to light, heat, ventilation, drainage and given to light, heat, ventilation, drainage and
water supply, and experts pronounce the sanita-
tion perfect. The Western was chartered in 1853 tion perfect. The western was chartered in 1553
as the Western Female Seminary. Having
advanced to full college work, iu 1895 a new advanced to full college work, iu 1895 a new
charter was obtained and the name changed to
The Western, a College and Seminary for Women. The Western, a College and Seminary for Women nominational in character. An able faculty of educated women are keeping The western
thoroughly abreast of the times in culture and
scholarship. For course of study, terms and other scholarship.
information a
information address
MISS LEILA S. McKEE, Ph.D., President,
OXFORD, - OHIO.



AGRICULTURAL COURTSHIP
A potato went out on a mash, "That's pie for me," observed the squash, Go away," the onion, weeping, cried, "Your love I cannot be; The pumpkin n be your lawful bride;
Fou cantelope with me!'"
But onward still the tuber came.
And laid down at her feet;
Tou caulifower by any name
Tou cauliflower by any name
And it will smell as wheat,
And I, too, am an early rose,
And you I've come to see,
So don't.turn up your lovely nose but spinache at with me.
I do not carrot all to wed, So go, sir, if you please!"
The modest onion meekly said. "And lettuce, pray, have peas! Myself, or smelled my sigh Too long a maiden I have been
For favors in your rye!',

And, spare a cuss!", the tuber prayed; "My cherryshed bride you'll be, Tou are the only weeping maid
That's currant now with me! That's currant now with me.
And as the wily tuber spoke And as the wily tuber spoke
He caught her by surprise, And, giving her an artichoke,
Devoured her with his eyes.

TSHE WAS PREPARED HE vicar of a little parish in Devonshire always felt it to be his duty to gire each
couple a little serious advice before he performed the marriage ceremony, and for this purpose he usually took them
aside, one at a time, and talked very soberly to each of them regarding the great importance of the step they were to take and the new responsibilities they were to assume.
One day he talked in his most earnest manner for several minutes to a young woman who had
come to be married. come to be married.
"And now," he said, in closing, "I hope you fully realize the extreme importance of the step you are taking, and that you are prepared for it." "Pre
"Prepared?" she said. innocently. ""Tell. if I
. ain't prepared I don't know who is. I've got four
common quilts and two nice ones, and four brandnew feather-beds, ten sheets and twelve pairs of new feather-beds, ten sheets and twelve pairs of
pillow-slips, foun linen tablecloths, a dozen spoons
and a new six-quart kettle. If I ain't prepared no girl in the country ever was."


## MICHTY $\overline{\text { ss HIS POWER }}$

## WE ALL WONDER

"Pa." began little Clarence Callipers, who is cursed with an inguiring mind, "those little ba-bies-with no bodies, but only just heads with
wings on eml where their ears onght to be-that
we sompetimes see in wictures are che "hey?"
"Yes. I guess so." allswered his long-suffering
"Well, now, pa, as they haven't got any tails to balance themselves with. why dont they fiop over
and bump their noses whell they try to fly?"

LITTLE BITS
The English cousin-" What do you mean when you say that a person is 'in the soup?'"
The American cousin-"'They mean that he is The American cousin-"They mean that he is
not in it."
When a man slips on an orange-skin, the first When a man slips on an orange-skin, the first
thing he does is to look back to see what it was. The first thing a woman does is to look around to see If
o-nisht ine, dear," said mama, "no more cakes to-night. Don't you know you cannot sleep on a
full stomach?" "Well,
$\Delta$ young hopeful sat in the window a long time the other night during a thunder-storm, and con-
templated the scene with a wise look on his face. Then he turned to his mother, and said, "Mama, Then he turned to his mother, and said, "Mama Household Words.
The tramp who "lost everytbing in the Missis sippi floods" is now abroad in the land. One of
them approached a benevolent old gentleman in Atlanta Sunday.
"And you say," said the old gentleman, "that your children were drowned in the flood?"
"Yes, sii,"" replied the tramp, wiping his eyes with his coat-sleeve? ; "seventeen of 'em!"
"God bless me!" exclaimed the old gentleman, "I know that, sir," interrupted the weeping tramp, "but they wuz all twins."-A Atlanta Co
stitution. stitution.
The subject of the essay of a young lady who was graduated from a high school in an Ohio town Was "Hawthorne." In her essay sle said: "At ook his wife to the old manse,
The day after the commencement one of the the affair over remarked, "Wasn't it mean that Neaude should say such a thing in her essay?" Niss E. inquired what sle alluded to
"Why, she said at the age of thirty-nine Ha Why didn't she say to his father-in-law's"

Prof.Weltmer, the Great Magnetic Healer, Astounds the Worid by His Remarkable Cures WELTMERISM REVEALED TO ALL


PROF. WELTMER
function and the disease is ban
are not only permanently cured



 tion, dyspepsia, stomach trouble in fact, any disease
knon to man or woman and this withoutt he aito of


 From the press and pulpit come words of gratitude,
roicing the sentiments of thousands who
nave been cured by the wonderful scientific method, known as








SOLD!

## Dositive <br> Guarantee

 collar of tbe dirtiest shirt
and with mact more ease.
Tbis applies to Terriff's Tbis applies to Terriff's
Perfect Washer which
will he sent on trial at


IE TRUST YOU WITH A BOOK-

Mrs. Jennie L. Linch, Lakeview, Mo., was for two
years a atilicted with ulceration of the wonb, heart and
to a mere troule and general dehility was reduced
to mand stomach troubles and general dene woilt; was, heart and
to a mered sed seloton. Curea hy tbe Weltmer Absent
Treatment In les. Treatment. In less than thirty days gained Absteent
pounds. pounds.
MIrs. Lavisa Dudley, Barry, H1l., suffered for thirty
years with nenralyia and stomacb broubles. Nothing
 Mr. John S . Small, Colfax, Ill, was deaf in his left
ear for serens; could not hear a watch tick when
placed against bis earl Was pernazently cured in three days by Prof. Weltiner.
Any. Whe Triting tor Prof S. Weltmer, Nevada,
Mo., Will receive a 40-page illustrated magazine and a list of restime a 40-page illustrated magazine and
their bealthials from men and women who owe their bealtb and bappiness to Teltmer.
information on this science of bealing.

THE WELTMER METHOD TAUGHT TO OTHERS The Americau School of Magnetic Healing is organ.
ized under the laws of the State of Missouri.
Prof
 cure, in ten days. This noble profession is taught
either mall or personal instructions. Any one who
desires. min lin desires can learn it, and any oue mbo iearns can prac-
tice it. This has beu abundantly proven by the great
number who have active practice of healing by by tbis matho mare This the
beyond doubt tbe best pasiug profession of the age, as students who bave learned thris method througb the
American School of Magnetic Healiug are earning The following letter is one of the many in the pos.
session of the American Scbool of Magnetic Healiug Dear Sir:-Your mait course in Magnetic Healing was recetred some months ago. After reading same
into pratidearea and at once proceeded to put it
ind found I could accomplish all and even nore than I anticipated. I have never failed to made a uumher of cures in cases tbat bave been given to devote nest of ourire pbysicians as in to this workable. but sboupect
never use it outside of uy self or family, would con sider it the best investment I ever made.
J. T. IGLEHART, Meridian, Miss.
By addressing Prof. J. H. Kelly, Sec., Neyada, Mo,
you will receive instractions free of eharge..


S14 Eza IT COSTS NOTHING
 freight offer. Address, CASH BUYERS' UNION


THROW AWAY YOUR HAT PINS
 is a perfect device for bold.
insthe hat onthe head with.
out a pin, no nater how Jnst the thing for cyclists, in fact, crery laty, sonng or
old. Price 25 cents. by mail. Akents wanted.
IDEAL FASTENER CO. Station N, CHICACO, RUPTURE $\qquad$ Sure Cure at home; at
a small cost. No opera-
ion, pain, danger detention frominwerk. Ao return of Ruptare or fur
ther use for Trusses. Aomplete, radical cure to all
(old or oung. Easy to use. thousands curedi book
free (sealcd). DR. W. S. RICE, Box F, Adams, New York. TYPEWRITER HEADQUARTERS

ASTHMA AmidiarMENS =avevesus



| Winter Crops |
| :---: |
| POTASH, |

## ALL WOOL SUIT $\$ 5.95$



AT WHOLESALE PRICES Send size of room, and state if you want Brnssel HENRY NOEE \& CO. Molesale Carpets, Rugs, Mattings, Oill-Cloths, Ets
Market and Monroe Sts., chICAGo, ILL.


## We Want Agents

Salesmen Wanted Havana Cigars.

| CANYASSERS |  |
| :---: | :---: |
| CoIN CASH |  |


A SURE FORTUNE! If for hive sim
A New Aid for the DEAF S

FREE
LADY


瓨境 MISCELLANY , HE Chine inver

D mores about 713 miles an ho
THERE are at least $10,000,000$ nerve-fibers in the nod
He who buys wants a hundred eyes, and he Spreping your money with many a guest mpties the kitchen, the cellar and chest.
$\qquad$ IT is always safe to learn, even from our en-Thuth-the open, bold, honest truth-is always the safest
stances.
THE greatest depth to which a ship has been
nchored is 2,000 fathoms, considerably more than anchored
The thickness of buman hair varies from the twenty-fifth to the six hundrecth part of an inch;
blonde hair is the finest. and red the coarsest. blonde hair is the finest, and red the coarsest.
Drop a few small nails in the bottom of the Drop a few small nails in the bottom of the tself upon the nails, and pens will not corrode. ENperiments now show that during profound
sleep a noise not sufficient to a waken the sleeper roduces a perceptible rise in the temperature of

Late Morat, in Switzerland, has the curious property of turning red every ten years, owing to
the presence of certain aquatic plants whlch are not kuown in any other lake in the world. ocean is less salty than in other parts. This is no doubt owing to the abundant rains at the equator and to the melting of the ice in the polar regions penses to date have not been less than $\$ 300,000$,000 . The Navy Department's expenses in April
were $34,628,000$, which is not largely in excess of were $\$ 4,628,000$
the normal.
THE palms of the hands and soles of the feet are composed of cushions of fat in order that sudden jolts and violent blows may be success-
fully resisted, and no injury done to the muscles fully resisted, and no
and bones underneath
The strongest animals in the world are those that live on vegetable diet. The lion is ferocious ather than strong. The bull, horse, reindeer; lephant and antelope, all conspicious for strength,
American.
Of the forty-five states that now comprise tbe United States, iu five the higher judges are elected
by the legislature, in seven they are appointed by the legislature, in seven they are appointed
by tbe governor by and with tbe advice and consent of the council or senate, while in thirty-three hey are elected by popular vote $\qquad$
City people may congratulate themselves that they are very much less liable to lightning-stroke than country folks. In fact, it is reckoned that as likely to be struck by lightning as a town resident. This is because the tin roofs, drainpipes, etc., of city houses serve as conductors for
electricity. It is practically unnecessary to pro
vide lightning-rods for a dwelling in a city block
There are some curious facts about our calendar. No century can begin on Weduesday, Friday or Sunday. The same eatober always begins on tbe same day of the week as January, April March and November begin on the same days. May, June and August always begin on different days from each other and every other month in the year. The first and last days of the year are always the same. These rules do not apply to before and after Fehruary 29th.

IT is estimated that the total number of telephone subscribers of the whole world amounts to about $1,500,000$. The United States stands at the top with 900,000 . Theu follows Germany, with 160,000 subscribers; England, with 75,000 ; Switzer Hungary, with 30,000 ; the vast Russian empire, ith only 18,000; Scandinavia, 16,000; Denmark, with 15,000; Italy, 14,000; Holland and Spain, each
12,000; Belgium, 11,000; Japan, 3,500; Fortusal Luxemburg, Australia, each 2,000; Koumania, 400 ; Bulgaria, 300 . It will be seen that there is
sill plenty of room for extension. There are many countries where the telephone is still quite unknown.
THE territory of Alaska cost $37,200,000$. Up to $333,000,000$ worth of sealskins. They have pai into the treasury more than $\$ 6,000,000$ as royalties, with $\$ 1.340,533$ in dispute, says the "Saturday Evening Post." - No estimate of the whate fish
eries is accessible, hut the value of the product $i$ roughly placed at $\$ 2.000,000$ a year, aud the total of $\$ 20,000,000$ since Alaska was ceded to the United States. The salmon fisheries yielded
$\$ 2,97 \mathrm{~T}, 019$ in 189 T , and nearly $\$ 4,000,000$ in 1593 . The xact figures are not yet known. Since annex ation the total output of the salmon fisheries has
xceeded $830,000,000$. In a letter to Congress the United States commissioner of fish and fisheries stinated the value of the Alaskan fisheries, ex output up to 1897 exceeded $\$ 15,000,000$; the total or 1898 is estimated at $\$ 6,000,000$, although the

THE RATIO OF ILLITERACY
Statistics of illiteracy are sought in continental
nations of Europe in the case of sooliciers recruited in the arny. Among German recruits,
for ser
for instance, the percentage of illiteracy is 1.1 . Of
1,000 recruits, 880 can read and write, 11 cannot
In Switzerland the percentage of inliteracy is oue
half of 1 per cent; in France it is $5+$ per cent : in Holland it is a littile less-5.t; Iu Belgium it is
13.5; in Italy it is 38 ; In Hungary it is 28 , and in 13.5; in Italy it is 38 ; in Hungary it is 28 , and in
Russia it is 70 . There are no authentic figures of an official or quasi-official character in Spain
showing the illiteracy of army recruits. In Spain, showing the illiteracy of army recruits. In Spain,
as is G Great Britain, the test of ilititeraey is the record of marriages, from which it is seen tbat
about 65 per cent of the population of marriageale age seens to be iliterate marriage certificates in Scotland the ratio of ililitaracy among them was only 35 per thousand.
In England it was 88 and in Ireland it was 170 . but since then, of coursc, the general diffusion of education has further reduced the figures, makiug
them approximate those of Germany and other them approximate those of Germany and other Sweden the army percentage is nearly identical with that of Germany. In Denmark the ratio of
illiteracy among army recruits is very little higher ban it is in Switzerland, and In Anistria (Germa some other parts of the Austrian empire, however, Croatia, the Tyrol and Austrian-Poland, the
ratio of illiteracy is much higher, bringing it up a mong the army recruits generally to 12 per cent. In the United States 20 per cent of the population,
a larger proportion than in any other country, is a larger proportion than in any other country, is
enrolled at schools, the average attendance at which exceeds $10,000,000$. To the large colored
population and to the alien population of the United States is due the fact that there is any illiteracy here to speak of.

## CURIOUS TREES <br> A mong the most singular specimens of vegetable life are the bottle-trees of Australia. As the name implies, they are bottle-shaped, increasing

 in girth for several feet from the ground, and then tapering toward the top, where they are dlvided into two or more huge branches bearing foliagecomposed of narrow, lance-shaped leaves from four to seven lnches long. The bark is rugred, and the follage is the same in the old and young trees. The bottle-tree sometimes grows to a around the trunk, and measures thirty-ive feet posed to be thousands of years old.
The angry-rue is also antive

## The angry-tree is also a native of Australia.

 reaches the height of eighty feet after a rapid growth, and iu outward appearance somewhat resembles a gigantic century-plant. One of these out in Virginia, Wevada, where it has been seen by many persons. When the sun sets the leaves fold up, and the tender twigs coll tlghtly, like a little pig's tail. If the shoots are handled, the this queer plant is moved from for a time. If other it seems angry, and the leaves stand out in all directions, like the quills on a porcupine. most pungent and sickening odor, said to resemble that given off by rattlesnakes when annoyed, fills the air, and it is only after an hour or so that theleaves fold in the natural way.-The Evangelist.

## EATING SNAILS

The stories about Frenchmen eating snails are believed by many people to bave no foundation in fact, but snails are eaten, and to a very consider weight of snails are sold daily in the Paris mar kets to be eaten by dwellers in that city. They are carefully reared for the purpose in extensive herbs to give them a fine flavor. One such garden in Dijon is said to bring in to its proprietor several thousand fraucs a year.
Many Swiss cantons also contain large snail gardens, where they are reared with great pains. They are not only regarded as a great delicacy, but are considered very nutritious. Hygienist state that they contain nitrogenous matter, and that they are equal to oysters in nutritive properties
food in Austria expansively used as an article o countries on the African side of the Mediterra countries on the African side of tbe Mediterra
nean. Indeed, the habit of eating snails as food has existed in various parts of Europe for man centuries.-Ledger.

## FROM A CHILD'S POINT OF VIEW

 If the idea of the teachers of Christlanity is to briug the Deity iuto the daily life of the pupil the have been eminently successful in the case of little girl liviug on tbe South Side. Sheher Sunday-school lesson most literally.

Jessie," she said to her elder sister a few day "I do," replied the turn your toes out."
she qualified the other, indignantly, and then the time.'

Well, you ought to do it all the time," said the younger. "God doesn't like to see you walking

## PLACES WHERE CORAL IS FOUND

 The red coral which is used in jewelry, and which is known as precious coral, is mostly ob tained in the Mediterranean, the Barbary coasfurnishing the dark red, Sardinia the yellow or furnishing the dark red, Sardinia the yellow or
salmon color, and the coast of Italy the rose-pink It is also found in the Red sea. None is found in

Waltham Watches
are always guaranteed to be free from any defect in material or construction. The makers particuiarly recommend the movement engraved with the
trade mark
"RIVERSIDE
Made in various sizes for ladies and gentlemen, and for sale by all retail jewelers
"The Perfected American Watch," an illustrated book of interesting informa-
tion about watches, sent free on request. American Waltham Watch Co.,


Trade Mark-Dr. A. Owen
Dr. A. Owen's Medical Electric Appliances positively cure all forms of Nervous Complaints, Weaknesses, Physical Decline, Rheumatism, Neuralgia, Kidney, Liver, Stomach and Long-Standing Diseases.
All of the beneficial results that can be obtained from Electricity can be had by using the DR. A. OWEN system.
Write for large catalogue, free, which The Largest, Oldest and Most Reliable Electric Company in the World.
THE OWEN ELECTRIC APPLIANCE CO.,


## BUGGIES.



HOWE MILITARY SCHOOL LIma, Indana,
 and equipping the new nary, and his glorious victory in Manila bay. The men behind the guns, the trying period from May ist to the surrender of Manila, his diplomacy and statesmanship, and the triumphal journey home, all receive due attention. In addition the countries and places called into public riew through his connection with them are fully reviewed and illustrated. Admiral Dewey's undaunted courage and wondrous skill won for us the most complete and most brilliant naval victory known to history.
Who is there who does not want to read all about the career of the man who won the victory? The battle of Manila is but the climax of a lifetime of devotion to duty. The story of the wonderful victory is incomplete without a full understanding of the years of preparation leading up to it.

## Dewey the Ever=Ready...

In his distinguished career in the public service no emergency, no difficulty confronted him but that he was ready to grapple with it. Faithful to duty and capable of achievement, his record is without a blemish.

## Waited Forty Years

 For His Opportunity...The story of these years of waiting is of thrilling interest. No public man, no heroic character has ever been so subject to the search-light of publicity, and no one has ever showed up under its rays so clearly as

## An All=around Man, Sailor, Diplomat, Statesman, Patriot



## Reads Like Romance.

The story abounds in incidents and anecdotes and gives an insight into the character of that life which burst like a glorious sunshine on the view of the American people.

This book should be read in every home by old and young as the record of

## A Truly Great Man....

A man in whom are combined the most glorious traditions of the American navy and the noblest instincts of humanity. No book of biography ever issued has been so finely illustrated; the result is
The Thrilling Story
Told in Pictures

## OVER 125 ILLUSTRATIONS

## Rare Illustrations-Exclusive Illustrations

Many of these illustrations are historic pictures, some are special drawings, and by far the greater part are from actual photographs. All are instructive and pleasing as well as accurate and authentic. Many are used only by special permission and are to be found nowhere else. There are nearly 300 large pages, 6 by 8 inches in size,containing 125 illustrations and substantially bound in artistically decorated cover. Because we print the book ourselves and make no profit on it at all-we want the subscriptions and clubs-explains how, we can offer it at such a great bargain. It is

## THE BOOK BARGAIN OF THE CENTURY

## WE OFFER THIS BOOK FREE FOR A CLUB OF ONLY TWO YEARLY SUBSCRIBERS TO FARM AND FIRESIDE AT THE CLUBBING PRICE

We will Send TTis Great Life of Dewey, and
Farm and Fireside One Y Yar, or.

## Patterns of Seasonable Carments

We offer this month a selection of up-to-date patterns suitable to the season. The patterns are full and complete, being especially suited for home dressmaking.


A Mixed Family of Cubans

## OUR NEW BOOK

Our new book, "Photographic Panorama of Our New Possessions," contains over 300 realistic views which are a marvel of scenic beauty, fascinating entertainment and valuable instruction. The pictures are so enticing and so easy to comprehend that school-children will pore over the book for hours in deepest interest, while parents and teachers will find it a feast for the eye and a mine of timely information. The more than 300 photographs reproduced in the book represent a great deal of time and money, while some of them were taken at moments of extreme danger to life. Each page of this interesting book is 8 inches wide by 1 I $\frac{1}{4}$ inches long.


Destiny has suddenly made the United States an empire, war having added to her care and ownership rich tropical islands in the Atlantic and Pacific oceans. They are Uncle Sam's, yet they are strangers, for want of accurate pictorial knowledge of them. This want is fully supplied by our new book, "PHOTOGRAPHIC PANORAMA OF OUR NEW POSSESSIONS." Turning its pages is like the passing of a grand panorama. Its pictures present to the eye beautiful and marvelous sights in those island countries.

## Hours of Pleasure

The pictures on this page are taken from our new book, and will give an idea of the hours of pleasure which can be had visiting these scenes by the aid of pictures. It will delight every member of every home into which it goes. Children and grown folks alike will be entertained. The pictures are all fully described and explained, and much useful information is given concerning the countries.
In the book the illustrations are very much clearer and plainer, be cause they are printed on costly pol ished paper, with presses specially adapted for this kind of work.

GIVEN FREE For a club of only bers to the Farm and Fireside.


SELECTIONS
pointers on painting
the city, the painter, with his white suit of
overalls resembling Joseph's coat of many overalls resembling Joseph's coat of many
colors, is in eridence. You can spy him on the house-top, on the upper round of his
dizzily high ladder, on the staging in frout dizzily hi of upper
dence. The main point is to buy good paint The best is the cheapest. Taking into consideration the length of time good pain
lasts over a poor quality, the saring is a least one half of the purchase price. The
spring or autumn is the best time of the rear o do outside painting, when the weather is not too warm nor too cold. The woodwork and the drying process is not too rapid nor too slow. Select a day following a good rainstorm if possible; this will prevent the dust The first thing to do is to apply a coat of trong shellacto all io sandpaper rough places, and then apply your
painting coat. For the priming coat use yelpainting coat. For the priming coat use gel-
low ocher and raw linseed-oil. Take great ow ocher and raw hnseed-oil. Tare great oughly corered with the primer. When this coat is dry go orer your work and putty all
holes an cracks, learing the surface smooth. For the second and third coats use the best of white lead and zinc mixed with boiled
linseed-oil and turpentine in proportions of seven parts oil to one of turpentine. Make your color with tints. Apply your paint
evenly, with a free brush, and be sure and cover every spot. Let each coat of paint become thoronghly dry before applying the next succeeding one. If you do not, the paint s liable to crack or blister. No rules can be colors. The situation of the building and the surroundings will have much to do with this. Endeavor to attain harmony between the body color

## OPIUM IN THE PHILIPPINES

What water is to the caribao opium is to the Chinaman. Chless opium the belly of the arny might starre and the rifle want for ammunition. Every Chinaman whether ip the stupply-train he is in the States, or a "boy;" as he is in "Cheeno;" and the "Cheeno," like the carcountry if we would allow it. But Uncle am in his goodness of heart brings rice out rom Manila for him, while he leaves undisers, such stores as the insurgents have not day and a "Cheeno" manages to keep pace urdens that would break a Filipino's back. The Yankee drivers do not understand his language and he does not understand theirs. The teanster swears and gesticulates, and hird, if not the first, time what is wanted. If he gets lazs and lolls under the shade of cart he is sure to be up by the time that English-is within striking distance. From what they hare seen in the hospital corps
our officers are convincerd the Chinese under white officers will make filue soldiers. They dangerous places on the feld. Without the white man's moral support they yell and ne oclock in the morning, two thirds of ipinos were upon them. In their fright some
jumped into the river. Our soldiers in fisling then out forgot the disconifort of being
$\qquad$
$\qquad$

[^8]THE POWER OF NIAGARA

350,000 horse-power is to be developed on the
American and Canadian sides. or about five per cent of the total power available-no enongh to perceptibly diminish the flow over utilized, learing the rocky bed dry and bare we would but be substituting a wonderfu cataract of etheric energs or the shendid flow of gravitational matter so justly famed beauty would depend upon the individual, To those who trace in imagination the course of a beam of sunlight, as it buries itself in the ocean, rises in cloud, and falls again in yard, filling brook and swelling river, and fnally tumbling through mighty turbines and silently streaming from the polished slip rings of stately dynamos, bursting again into wholesome sunlight, to brighten the
homes of dundreds, the substitution homes of hundreds, the substitution would fulness and beaut

WHAT IS THE RAREST UNITED STATES
The question is often asked, what is the rarest stamp among the issues of the United states? The highest price ever paid for a single spem was given for the famons ten cent stamp of Baltimore, issued by the postmaster of that city in 1st5. The design shows the antograph of President Buchion with the antograph of President Buchanan, with in existence, and it may truly be said that it in existence, and it may truly be said that it in America.
Prior tothe sale of this celebrated specimen the highest price paid was $\$ 3,000$. This was Louis." which at that time ranked as one of the rarest American stamps. Shortly after it was sold, however, others were found, and the price has dropped considerably.
There are a great many United States stamps ranging in ralue from 8500 to 82,000 among which are the Beaumont, Uniontown and Madison (Confederate) Proris Tew Hareu postmasters' stamps, all of which are extremely scarce. Such rarities as these are seldom offered for sale, and when by chance one of them comes upon the marke
there are al ways many colling to pay full ralue for
In the way of finding rare stamps there are great possibilities for those who have acces to old letters and correspondence between the jears 1843 and 1865. The early post-
masters' Prorisionals were issued in 1845 1816 and 1847 , and the rare Confederate stamps in 1863. Besides these there are many old issues of regular United States stamps that are rare, and bring good prices when sold.
The most raluable stamps in the world are the first issues of the island of Mauritius, a Africa. Although between twenty and thirty are known, the last sold brought more than $\$ 5,000$ when offered in Paris about a jear ago.-San Francisco Post.

WOMEN AS BRICK.MAKERS
About the last industry in which one would expect to find worhen is that of brick-making, In the fields around Stourbridge, England, world for resisting high teniperatures, many girls and women are employed. On the pitbanks, hammer in hand, selecting the clas and renoving from it ironstone and other
impurities, pushing along wagons laden with the raluable earth, carrying great masses of molds by brick in the ordinary way, each "lass" at tended by a little girl known as a "pàee," who acts as a carrier-off, and lastly, packing the fired brick into rail way wagons and canalother duties are women engaged. - St. Paul

ONCE WAS ENOUGH
This is one of General Miles' stories: In making a nieht inarch. About four 0 clock in the morning, when every one was worn
out, a Georgia regiment stopped. A Georgia soldier put his riffe up against the tents on fight all day and march all night. But I sup-

## BUCKEYE Sisw ixim onill <br>  <br> "BUCKEYE" <br> Will prove a sufficlent guaran  <br> The Advantages


P. P. MAST \& CO. 17 Canal St, spriNCFIELD, OHIO Branch House; Phladidia, Pa


EVERY DAY SMOST MIEN
IN THE YEAR, S

## The Kemp

Manure Spreader
day In the year. It will earn the interest on the money every day it is used. Spreads all kinds
Kemp \& Burpee Affyz Con, Box 17, Syracuse, $\mathrm{N}_{1} \mathrm{Y}$, PE. PEACH Ornamental Trees, Shrubs, Bulbs.


## FEED MILLS

## 


LARKIN SOAPS Sels how to outain, free. the free. it
famous.
LarkIn premlums worth $\$ 10.00$ each.
Lat

HOC CHOLERA PREVENTED AND CURED


YOUR FORTUNE FREE $2=\mathrm{am}$


## Ih 

Vol. XXII. No. 24
${ }^{\text {EASTRPRN }}$
SEPTEMBER 15, 1899

TERMS $\left\{\begin{array}{l}50 \text { CENTSA } \\ 24\end{array}\right\}$

CLorado by reason of its exceedingly dry climate las a most ideal harvesttime. 'The farmer is seldom troubled viety is the too his principal sourc of anxiety is the too rapid ripening of his
crops, for this same dryness of climate crops, for that a crop very soon after it has atmatures a crop very soon after no has the
tained its growth. If it were not for the liberal use of labor-saving nachinery it is probable that large quantities of ripened crops would go to waste, but in the use of modern appliances the Colorado farmer is up to date. So that with continued fine weather, the employment of plenty of hands and machinery, the harvest goes merrily forward. The Colorado summe is usually a succession of bright sume? days, with light, shifting winds, while the autumn is very much like an easteri Indian summer very much prolongect.
The Colorado harrest begius in Jun and ends some time late in the fall, for potato-digging lasts sometimes int
Yovember. The first crop ready to lee garnered is alfalfa, and this, by the wa has become a leading crop in this state, being especially adapted to its soil, clibeing especially adapted to its soil, climate, system of irrigation and the neeris of stock-feeders. It is an extremely pro lific crop, yielding as it does three crop
and sometines four to the season fron and sometines four to the season fron the same ground, and the sield ranging from six to eight tons to the acre. It springs up very early in the season, and by the middle of May the Colorado farmer actively engaged in irrigating his alfalfa fields. About the middle of June the firs growth is ready for the mower. Then it is that the alfalfa-fields present in the rura landscape a beautiful appearance. The show in immense squares of dark green, an if let alone until in full bloom the green is mingled with a profusion of purple blossoms that throw off a very rich odor. Each nel is a dense mass of fotiage standing from surface and with hardly a bare spot or surface and with hardly a bare spot or
place of stunted growth being visible. It place of stunted growth being visible. It
is seldom that the fields are allowed to is seldom that the fields are allowed to
stand until the blossoms âppear, for the stand until the blossoms appear, for the
reason that the ground needs to be cleared reason that the ground needs to be cleared
for the second crop, which sometimes starts from the roots before the first is harvested
As soon as the alfalfa-fields are in conainion to cut the nowers are started out in full force, and they are seldom allowed to stop during the daytine until the cields lie flat in the swath. Rain or shine they are lept going round and round, for if the ('olorado farmer liesitated upon the appearauce of a stormy-looking cloud he would be thrown sadly behind in his work, and the second and third crops would be continually hastening his footsteps. So he goes steadily on, trusting in Providence for good hay-weather
In the harvesting of alfalfa the timeworn methods of the haj-field have nearly and expensive. After the alfalfa has been cut it is allowed to lie a while in the swath Then it is raked into windrows and permitted to tie awhile mitted to lie awhile. Then the "go-devil" and stacker are set to work and the hay is tumbled into stacks in great masses. The Colorado farner would laugh at the idea of The "booderil" it inly unnecessary adjunct. the go-deril is, in fact, a gathering-rake with long teeth set low and nearly horizon
tal. They project forward in front of the shelling. Then it is that the fields put on
 is drawn by a pair of horses, one on each full load the front of the machine is slightly elevated by means of a lever in the hands of the driver, and it is driven to the stack, where the load is received by the stacker upon a set of teeth almost the exact counterpart

atifalfa-Haying-Go-devil Approaching the Stacti
of those belonging to the "go-devil." Then by means of ropes, pulleys and an inclined track the load is elevated to the top of the stacker, the propelling power being a horse or pair of horses. On top of the stack two or three men put the hay in place with forks, and keep the stack in shape. Provided the hay is dry and well-cured when put in stack it comes out, even when left for several years, almost as bright and green as when put up. The second cutting of alfalfa is harvested during the latter part of July and first of


## potato-digger at Work

August, and the third in September and October. As to feeding qualities the second cutting is considered the best of the three. Ordinarily the grain-fields begin to put on a tinge of yellow late in July, and by the first week in August the harvesters are in full play, and there must be no delay, for wheat especially ripens rapidly, and if allowed to stand too long wastes badly from
ever, suffers from storms. Nothing gladdens the eye more than a field of thrifty-producing wheat all put nicely in shock basking in the full tide of a Colorado sun.
Threshing is almost contemporaneous with the cutting. In fact, the first grain to be threshed is frequently taken in bundles from the ground, where it was thrown by the harvester, and hauled directly to the thresher. But, of course, there is not necesarily that great haste about threshing as there is about harvesting, for the grain
bright days of early winter. Nearly all the threshing is done by contract by outits that move their plants from ranch to ranch and thresh for so much a bushel. These outits form one of the picturesque features of rural life, and when they move along the highways on their journeyings attract universal attention. Quite frequently the motive power is derived from a traction engine that not only propels the machine ry, but hauls it from point to point, the thresher, separator, coal and water van and movable cook-house trailing slowly after it. Threshers find it quite a prof itable business, and trarel over the same territory year after year. Nor is it an unattractive occupation. It implies a free, open-air life, with plenty of hard work and just enough variety to keep up the zest of the thing. The cook-house is a kitchen, dining-room and sleepingapartment combined. Sometimes it is presided over by a man and sometimes by a woman, mayhap the wife of the boss or of one of the crew. Each member of the crew carries his own bedding and sleeps sometimes in the farmer's bunk-house, barn or under a straw-stack, which is better than either unless it should rain and eren in that case there would be no serious discomfort
Gradually in threshing machiner crowds ont the human toiler. Formerly it took a man to feed in the grain, now they have the self-feerer; and still late came the automatic twine-cutter. It was not many years ago that it required quite a force of men to handle the straw, but first came the endless chain, which elevated and carried off the straw, but it was a littl clumsy, and now comes the pneumatic straw stacker, that blows the straw into empt space with a mighty air-blast generated from the engine. It is hung upon a pivot, and can be trained from point to point after the man ner of a siege-gun bombarding a hostile city With a good yield of grain and everything running smoothly an outfit can thresh out between 2,000 and 3,000 bushels of grain a day. From the thresher the grain goe to the farm granary, but more frequently to the city elevator, and all during the thresh ing season the country roads are lined with wagons heaped high with the garnered products of the soil.
Potato-harvesting is another interesting feature of Colorado husbandry. As in grain-harvesting it is nearly all done by machinery. The potato-digger, a cyclopean arrangement, drawn by from four to six stout farm-horses, thrusts its long stee fingers down into the mellow soil, and as it passes from side to side of the potato field leaves behind it a trail of hust "spuds." The picking, howerer, is, up to the present time, done by hand, and the "spud-picker" has become a character in Colorado farm circles. It is hard work, Color commands rood pay But it would but commands sood pas. But it would not be surpring if the ive a mind would soon contrive a digger tha would delirer the potatoes to the hauler, al sorted, sacked, and the sacks tied up. The potatoes are sorted by a simple contrivance in the shape of a slatted toboggan-slide, down which the "spuds" are permitted to roll, the smaller ones falling through the meshes of the track, the larger shooting the entire length and landing in a capacious sack Potato-raising has become a leading indus try in Colorado, the single town of Greeley, Weld county, shipping as high as 10,000 carloads to market in a single season
keeps perfectly in shock or stack and can be threshed at leisure. So all through the long sunny fall months the shrill whistle of the thresher-engine can be heard coming across the yellow fields, rousing up the worker: betimes in the morning and announcin meal and quitting time throughout the da Nor does the work cease with the adrent the new jear, but continues auring the

FARM AND FIRESIDE
The Crowell \& Kirkpatrick Co.

\section*{47 Nassan Stree. <br> | Springield, |
| :--- |
| Obio | <br> 204 Dearborn Street,}

Subscriptions and all business letters mar be ad-
Iressed to "FA FAM AND FIRESIDE," at either one of
the above-mentioned ofices; letters for the Editor the abo ve-mentioned offices;
should be marked Edrtor.

TERMS OF SUBSCRIPTION
One Year
(24. Numbers)
(2. Numbers)

50 Cents
Six Months
(12 Numbers)
30 Cents

## The above rates include the parment of postage by as. All subscriptions commence with the issue on

Sulscribers recelve this paper twice a month, which
is twice as often as most other farm and fannils jour-

## Payment, when sent by mail, should be made in Ex- press or Post-ofice Nones-orders, Bank Clecks or ${ }^{\text {press }}$ Drafts. HEN NEI end the mo <br> ilver. When sent through the mail, should be care- fully wrapped in cloth or strong paper, so as not wear a bole through the envelop and get lost. <br> Oostagestamps will be received in payment for sub- scriptlous im sums less than oue dollar, if for every 23 cents in stamps 23 cents in stamps you add one-cent stamp because we must sell postage-stamps at a loss. <br> The date on the "yellow label" shows the time to which each subscriber bas paid. Thus: sep99 means that the subscription is paid up to September, 1899; that the subscription is paid up to oct99, to October, 1899, aud so on. <br> When money is received, the date will be changed withln four weeks, which will answer for a receipt. <br> When renewing your subscription, do not fail to say it is a renewal. If all our subseribers will do thls, it is a renewal. If all our subseribers will do thls, a great deal of trouble will be avoided. Alsogive your name and initials just as nor on the yellour address label; the paper is novic coming in your cife's name samily: if her namne, just as it is on the label, to your letter of reneval.

The Advertisers in This Paper We believe that all the advertisements in this paper
are frou reliate firms or business menen, and do not
intentionally or knowingly insert tadvertisements from intentionally or knowing if insert aderrisements from
any but reliale parties; is
to be otherwise we should be glad to know ant of them mention this paper when answering advertisements,
as advertisers often have different things advertised

## 

IN His Pittsburg address, welcoming the returning Tenth Pennsylrania regiment said, in part:
"I am glad to participate with the families, friends and fellow-citizens of the Tenth Pennsylvania Tolunteers in this glad reunion. Tou have earned the plaudits not alone of the people of Pennsylrania, but of the whole nation. Tonr return has beeu the signal for a great demonstration of popular regard from your landing in the Golden Gate on the Pacific to your home-coming, and here you find a warmth of welcome and a er than words the estimate of your couutrymen and their high appreciation of the services you hare rendered the country. You made secure and permanent the rictory of Dewey. You added new glory to American arms. you and your brare comrades engaged on other fields of conflict hare en-
larged the map of the United States and extended the jurisdiction of American liberts.
"Our troops represented the cuurage and conscience, the purpose and patriotism of
their country: Whether in Cuba, Porto Rico or the Philippines, or at home awaiting orders, they did their full duty, and all sought the post of greatest peril. They
nerer faltered. The Eighth Army. Corps in the Philippines hare made a proud aud exceptional record. Privileged to be mustered out in April, when the ratifications of the
treaty of peace were exchanged, they did not claim the privilege-they declined it. They voluntarily remained in the serrice and declared their purpose to stay until their places clared their purpose to stay until their places the gorerninent needed thein. Their service camp or garrison, free from danger, but on camp or garrison, free from danger, but on confronted them and where both have exacted their rictins.
"They did not stack arns. They did not run away. They were not serving the in-
surgents in the Philippines or their sympathizers at home. They had no part or patience with the men, few in number hap-
them lay down their arms in the presence of an enemy whom they had just emancipated from Spanish rule, and who should have been our firmest friends. They furnished an example of derotion and sacrifice which will brighten the glorious record of American ralor. Ther hare secured not alone the gratitude of the gorernment aud the people, but for themselres and their descendants an imperishable distinction. They may not fully appreciate, and the country may not, the heroism of their conduct and its important support to the gorernment. I think I do, and so I am here
"The mighty' army of rolunteers aud regulars, numbering orer 250,000 , which last year responded to the call of the government With an alacrity without precedent or paral lel, by the terms of their enlistments were to be mustered out, with all of the regulars abore 27,000 , when peace with Spain was
effected. Peace brought us the Philippines, effected. Peace brought us the Philippines,
by treaty cession from Spain. The Senate by treaty cession from Spain. The Senate Erery step taken was in obedience to the requirements of the Constitution. It became our territory, and is ours as much as the Louisiana purchase, or Texas, or Alaska A body of insurgents, in the people of the islands, disputed our lawful authority, and islands, disputed our lawful authority, and eren before the ratification of the treaty by the American Senate were attacking the
rery forces who fought for and secured their rery force
freedom.
"This was the situation in April, 1899, the date of the exchange of ratifications-with only $2 \pi, 000$ regulars subject to the unques tioned direction of the executire, and they for the most part, on duty in Cuba and Porto Rico, or inralided at home after their serere campaign in the tropics. Eren had they been arailable, it would hare reqnired months to transport then to the Philippines. Practically a new army had to be created. These loyal rolunteers in the Philippines
said, 'We will stay until the gorernment said, 'We will stay until the gorernmen it to the seat of hostilities.
"They did stay, cheerfully, uncomplainingly, patriotically. They snffered and sacrificed, they fought and fell, they drore back and punished the rebels who resisted federal authority, and who with force attacked the sorereignty of the United States in its newly acquired territors. Without them then and there we would hare been practically help-
less on land, our flag would hare had its first stain and the Ainerican name its first ignominy. The brilliant rictories of the army and nary in the bay and city of Manila would hare been won in rain, our obligations to cirilization would hare remained temporarily unperformed, chaos wंonld hare reigned, and whaterer government there was would hare been by the will of one man and not by the consent of the gorerned.
"For these men of the army and nary we hare only honor and gratitude. The world will never know the restraint of our soldiers -their self-control under the most exasto the insultations. For weeks subjecten leaders, they preserced the status quo, re membering that they were under an orde from their gorernment to sacredly obserre the terms of the protocol in letter and spirit and avoid all conflict except in defense, pending the negotiations of the treaty of peace. They were not aggressors. They did not begin hostilities against the insur gents pending the ratification of the treaty
of peace in the Senate, great as was their of peace in the Senate, great as was their
justification, because their orders from justification, because
'I take all the responsibility for that direction. Otis only execnted the orders of lis government, and the soldiers, under great provocation to strike back, obeyed.
Tntil the treaty was ratified we had no au thority beyond Manila city, bay and harbor We then had no other title to defend, no authority beyond that to maintain. Spain was still in possession of the remainder of the truce and treaty were not concluded.

The first blow was struck by the insurgents. Our kindness was reciprocated with cruelty, our mercy with a Mauser. The flag of truce was invoked only to be dishonored hur soldiers were shot down when minister firg to the wounded Filipinos. Our luman ity was interpreted as weakness, our forbearance as cowardice. They assailed parle $y-n o$ pause until the insurrection is
nowledged and established. The nisguided followers in rebellion hare only our charity and pity. As to the cruel leaders who hare needlessly sacrificed the lires of thousands of their people, at the cost of some of our best blood, for the gratification of their own ambitious designs, I will leare to others the ungracious task of justification and emlogy:
"Thile we gire you hail and greeting from orerflowing hearts we do not forget the bare men who remain and those who hare one forward to take sour places, and those other brave men who have so promptly rolunteered, crowding each other to go to the front, to carry forward to successful completion the work you so nobly began. Our prayers go with them, and more men and munitions, if required, for the speedy suppression of the rebellion, the establishment of peace and tranquillity and a government under the undisputed sorereignty of the Cnited States-a government which will do justice to all and at once encourage the best efforts and aspirations of these distant people and the highest derelopment of their rich and fertile lands."

A
t the annual meeting of the American Association for the Adrancement of Science, recently held at Columbus, Ohio, Prof. H. T. Newcomb read a paper on trusts,
stract:
""The aphorism that 'competition is the life of trade' is accepted by the general pubic as an economic axiom, and is made the major premise of a syllogism of which the competition is an ineritable conclusion. To public opinion thus summarized the indusrial progress of the nineteenth century has consisted very largely of a succession of exceedingly disquieting phenomena which are suggested by the terms factory system, trades-union, corporation, consolidation, combination, railway pool, and the more recent term of indefinite significance, 'trust.
"Lp to the period that may" be roughly marked off as having begun with 1870 there had been a great derelopment of the factory system. Factories had increased in size, railways had dereloped and had been consolidated into extensire systems. labor had formed itself into trade associations, corporations were mumerous and controlled great wealth, but all of these institutions rere separate. The new period is char tions, by railway comprehensire combinarorkmen of all pr many trades, of man ufacturing establishments combined in trusts.' The latter name surrires, though the legal entity to which it was properly applied has become obsolete. The early trusts were created through the trausfer of the property of rarious establisluments to
trustees who issned trust certificates to the trustees who issned trust certificates to the gages, also, upon the property placed in trust by each.
"These organizations met great popular oppositiou, and were found exceedingly valnerable to legislatire attacks. Ther lasted long enough to impress upon capitalists the adrantage of consolidation, aud were then superseded by gigantic corporations, organized to take over the property formerly belonging to separate indiriduals, firms or smaller corporations. Popular opinion attaches to these new corporations the incident of monopoly, but in so doing is never quite accurate. For example, we hear inuch of trusts in the iron industry, but twenty-fise per cent of the furnaces are operated independently of each other, while the remaining seventy-fire per cent are con-
trolled by fourteen separate organizations, trolled by fourteen separate organiza
all bitterly antagonistic to each other.
"The phenomena suggested hare been the product of natural causes, are all closely related. and the latest was indicated by the earliest. To explain these relations it is necessary to examine the nature of iuclus trial competition, and especially to consider the modifications which it has undergone as the result of the introduction of machinery: theoretically simple classification of industries depends upon whether they conform (a) to the law of diminishing returns, (b) to of iucreasing returns. The facts which determine the place of a particular industry under this classification belong to its tec under this classification belong to its tec nique, but the results are of the utmos
the economist, indicate that all industrie pass or may pass through successire states law of increasing, of constant and of diminishing returns.
"Then an industry is in the first state outputablishment tends to increase it being equal-reduces prices, the process must eventnally crowd out those proces duce under the least farorable condition The position of marginal producers is there fore unstable, and such industries tend toward monopolization in the hands of the single producer whose cost per unit of pro duction is lowest. Industries which now collforn to the law of constant, or to that of diminishing returns, have reached these states in nearly all cases before the estab lishments hare grown to the size which would permit them to supply the entire market. Machinery has extended the application of the law of increasing returns, and thus tended to remove industries from the competitire field.

Capitalistic combinations are, therefore performing a useful public serrice, though there remains an inquiry as to the distribution of the beneficial results. Such com-
binations should tend to decrease prices to binations should tend to decrease prices to
consumers, to increase the demand for rav consumers, to increase the demand for raw material, and therefore the price, to aug ment wages, and ameliorate the condition of employees, and there is some eridence that they have done so. It is clear that while they tend to the centralization of industrial control they tend also to the diffnsion of industrial ownership. The latter tendency would be more notable were it not for the popular attacks upon these combinations and the danger of adrerse legislation.

The process of industrial derelopment inrolres continuous readjustment and re arrangement. Capitalistic combination hare naturally tended to expedite the nec essary changes. The temporary evil result have therefore been more acute in thei consequences, though they are doubtles sooner orer than they would be under a simpler competitive system."

T
HE adrance in the retail prices of bee has caused no little discrussion whe not it is based on conditions of suppl and demand. There can be no doubt that the demand is increased by the wide-spread
prosperity of the country, enabling the peoprosperity of the country, enablin
ple to purchase more animal food.

In regard to the supply Secretary Wilson says:
"For rarious reasons the number of meat animals in the country has been growing gradually less for sereral years. Hard time forced people to economize by using les meat. The result was a smaller demand for live stock with a lowering of prices, which in turn led stock-raisers to grow fewe animals. Large losses from disease and exposure last year also had some effect in the same direction.
"Here is a statement by the dirision of statistics showing the number of cattle other than milk-cows, of sheep and of swine on January 1st for ten ycars past

"It is noticeable that the decrease begins as liard times pinclied. The number of sheep increased somewhat during the las two years, and that was probably due to the fact that many persons substituted muttol for beef. It will be observed that since $1 s$ st the number of cattle has decreased nearly ten nillions, or about trenty-seven per cent, but it must also be remembered that the population of the country has bee increasing. The number of sheep has decreased nearly eight million head, or about sixteen per cent, since 1893 , while the swine since the ligh-water mark of 1892 have fallen off nearly fourteen million head, or more than twenty-six per cent.
prices of meat continue high the farmers in the corn belt will take to raising lire stock It will pay them better than raising the ran material. They will transform some of the into pasturage and feed the cheap corn to the cattle.


Water Cure cases of hydro- has a well-filled silo. There is mo reason why , is phobia are rare, rer people of Buffalo and vicinity hare been almost scared out of their wits by what they imagined to be an epidemic of rabies. would uphold the local authorities, boar of health, etc., and our own state commi sioner of agriculture in their efforts to pro tect the people, not only against the bites of mad dogs, but not less against their own fear. It must be a torture worse than death to be couscious of having beell bitten by a dog sus pected of having the hydrophobia, and to lise for days, weeks, months, in fear of disease and a certain death so terrible. In times of danger it is a good thing to keep idemic of rabies were to result in the killing of nine out of every ten dogs in the country it would be a blessing to all. We have fa too many worthless curs in the land. But What a folly, uay, crime, to kill a dog that
has bitten a person and is suspected of being mad. The probabilities are that the dog was just mad enough to bite, or suffering from some ordinary dog disease, without having the real hydrophobia. Such dogs
should be shut up in a safe place or safely should be shut up in a safe place or safely
chained, and then watched. If he gets orer the disease, the bitten person may feel a ease about the consequences of the bite. If the dog dies under symptoms of the rea malignant disease, then there is danger for the bitten person, although even then there is only a small chance of his or her taking the disease. It is claimed that only one perposedly thousand that is bitten by a It is a wonder, howerer, that many of them do not die from the shock and from the horror of the terrible fate that may be wait

I see it stated that a certain Dr. Kinnear claims (in "Medical Record") to have found a sure cure for hydrophobia, even after that is well developed, in a hot-vapor or Russian
bath. The symptoms of the disease are said bath. The symptoms of the disease are said
to leare, and leare for good, at a temperature to leare, and leare for good, at a temperature of one hundred and twenty-seren degrees
Fahrenheit. Editor Fowler ("New York Farmer") comments on this claim as follows "Dr. Kinnear"s method is entirely sensible and if any one has blood-poisoning from any cause, the Russian bath of rapor or the Turkish bath of hot air is the best way out (who manages the serum-injecting resort in New Iork) charges what the traffic will bear By the way, there is nothing new in the hot bath treatment; it was practised at least forit sears ago, and I never heard of this treatment was rery distinctly whe this treatment was recommended not only
for hydrophobia, but also for tetanus (lock jaw) and for various other minor diseases especially rheumatism. All this seems to
gire additional testimony in favor of the gire additional testimony in faror of the vapor bath mentioned by me in an earlier
issue. I know nothing of the safety or issue. I know nothing of the safety or
effectireness of the Pasteur method, but I fear it. It is not a pleasant thing to be squirted full of the poisonous serum, and if we can find a cure that is so much easier and safer, and also cheaper, then why torture people with serum injections?

## Cows During

Just now the fact is very viridly impressed on m
the Hot Season mind that it is much easier to manage cows during the winte than during the summer. All winter long we feed a certain ration of cut corn-stalk meal. The cows are safely in the warm stable, in greatest contentiuent, no flies or anything else bothering them, and the flow of milk is steady and strong. Just at this time the stables are too hot for the poor an imals' comfort, and the atmosphere outsid too full of flies, while the pastures are dry and dusty. We see again, but too late, wher patches of oats and peas for preen mor take the place of the peas for green feed tor June and July: the abundant pastures of hot ays the 1 bere that ding thes hot days the cows should be kept in well ventilated, darkened stables from which the fies are driven out by spraying with any fly-
repelling mixture. Then if they are fed with fresh-cut oats and peas, all they will eat, the flow of milk will continue full and free, and the cows will prove a source of profit right
along. Fortunate, indeed, is the farmer who
the cows should not have the same rations now as during the winter. They would do now as during the winter. They woulter than if sent out in the pasturemuch better than if sent out in to tormented all day long by the flies. Possibly at some time some one will give us a plan how to construct a silo suitable for only two or three cows. Any man having more thau that number has no justification for doing without a silo. Undoubtedly silage with bran and oil-meal is the ideal ration for milk-cows the year round. But as long as I work on too small a scale to hare a silo I must provide such substitutes as green oats and peas; and to hare them right along when needed a patch should be planted every few weeks until midsummer or even early fall. I have had nice cuttings of oats and peas
before this as late asthe middle of December. before this as late as the

In many portions of this state, and probably
well, the method of sep. of other states as well, the method of sep)arating the cream by means of dilutiug the
freshly drawn milk with cold water is befreshly drawn milk with cold water is be coming very popular. The diluted milk is set in deep pans or cans, and after twe faucet at the bottom until only the cream is left in the can, and can then be poured off from the top, when the can is ready for washing or simply rinsing and refilling. This process is not patented nor patentable, although there may be agents traveling about the country who claim patent on some form of can, and try to collect royalty. A bulletin recently issued by the Cornell University exper-
imentstationcomes to the following
 conclusions
eral patents have been granted corering unimportant details of the construction of cans in which the dilution of milk with water is recommended to facilitate the separation of the cream. Any one desiring to use this process of doubtful utility is perfectly free to do so without let or hindrance from the holder of any patent right whatever. The Cornel University agricultural experiment station (Ithaca, New York) will esteem it a favor to be put in communication with any one who
is demanding a royalty from persons who are dilnting their milk in order to facilitate the raising of the cream."

With due respect for Cornell's learned men, and notwithstanding their opinion, that "these cans are not separators in the unirersally accepted sense of that term, and cannot rank in efficiency with them, that thes are even less efficient than the best forms of deep-setting systems, such as the Cooley creamer, and that they are no more efficient than the old-fashioned shallow pan, but require perhaps less labor." I am quite sure that the plan has merits which will not fail to recommend its use to many. We must not forget that many farmers have to do entirely without ice. We use the Cooley of ice system, which requires great deal ice, but can get fresh, cool water from well or spring, and when saving in labor counts for much, the dilution process may le just the thing you want. It is conducive to cleanliness, and in most cases results in a better quality of butter than is commonly made by the shallow-pan system. This higher grade of butter alone more than compensates for the small loss of fat (if there is any); and the diluted milk is just as good for the hogs as the ordinary skim-milk, as we find we hare to add water to the slops anyway in order to hare swill enough for our hogs. The cans may be made on the same general plan as those used by the Cooley creamer, only larger. The tin should be rather heary to be durable. The bottom is inserted slant ingly toward the front. Then there is a glass gauge to show when the milk is all ont, the cream alone remaining in the can. An ordinary cover will do.
T. Greiver

SALIENT FARM NOTES
Boy Coal Early During the past sixteen
ears I hare made it a rule to fill my coal-house to the roof in Septembe or early in October. At that time the road are dry and hard and the hauling good, while one is sure of obtaining dry coal and at a price as low as it is likely to be any' time and hard one can haul forty to fifty bushel as easily as he can ten when they are soft, and then there is a great deal of difference in the weight of dry coal and wet coaldifference of one hundred to two hundred pounds in a tou-and that is an item worth considering. Many a time hare I seen farl with foung ten or frteen bushels or wet coal with four strong horses when the roads
were axle deep. They had paid two to foul cere axle deep. They had paid two to four the coal was not half so good as mine, weighed almost one fourth hearier, while the actual cost of hauling it was more than ten
cents a bushel. ents a bushel

Then one has a big coal-house full of coal he is in a position to smile at strikes and lockouts. Many times have I seen people compelled to burn dirty cobs raked out o the pig-pen, saw and hack ap old stump strile had stopped the supply of coal and strike had stopped the supply of coal and they were out. Tre never been caught in
such a fix, and never expect to be. No live man need be. All he needs is a dry shed that will hold a supply sufficient for eight or nine months, and to fill it now. In summer when everything is dry one can rake up a pile of cobs in the yard that will do to make
the short, lively fires needed most days, but the short, lively fires needed most days, but in winter one needs coal, and wust-have it and see that the coal is dry when you buy it

## Apply Manure One March day several

in the Fall years ago I was spreading intended for corn when a man who had made a success of market-gardening came along. "Hare you much of that manure?" he asked. I said there was probably twenty loads of it. "Four twenties are eighty," he remarked. "If you had spread that manure last October or Norember one load would have done you as much good as four will
now. Experience taught me that fact. Always apply barn-yard manure in the fall if you want to get the full ralue of it the next year." I have since learned that he was
right. Manure applied in the fall is not right. Manure applied in the fall is not
wasted-washed away and obliterated, as many old farmers contend-but it is converted into humus and made arailable for the succeeding crop, while manure that is applied in spring is not "digested" until after the crop has about completed its growth, then it has no need for it. About all one gets out of spring-applied manure is a rank growth of weeds late in the season. The only land upou which I would apply mauure in spring is that intended for winter wheat. By fall the manure would be available for the wheat-plant and, a rigorous able for the wheat-plant and, a rigorous
growth would be certain.

Last spring a tenant-farmer wrote me that there was at least a hundred loads of manure in the barn-yard of the farm he had leased, and he wished to know whether it would pay him to apply it to the land he would pay him to apply it to the land he would
plant to corn. I informed him that it would plant to corn. I informed him that it would
provided he could lease the farm for another provided he could lease the farm for another
year. A few days ago he wrote again statyear. A few days ago he wrote again stat-
ing that he had applied the manure and plowed it in, and that all he had gotten from it was weeds and grass, and to keep them down he had been obliged to cultivate his corn six times. Now he writes that he has leased the farm another year, and asks if I would sow wheat in the corn, which will tainly. ready to cut. I would most cerwell filled with available fertility, and withont a doubt the wheat will make a strong growth this fall, and should yield a very fair crop next year

Now is the best time of all to apply manure to the garden and to any spot where a strong and vigorous growth is desired next season. would put on the manure now, or early in October, and either turn it under shallow or leave it lie on the surface. Next spring the land can be plowed deep and the decayed manure will be well mixed with it. In my own practice I can see little difference be tween learing it on the surface and turuing it under, unless it be fresh and coarse. coarse manure will decay more completely fllowed to lier three or four inches than

It is a good idea to select the spots now where the early regetables, such as radishes, lettuce, etc., are to be grown next year, and lettuce, etc., are to be grown next year, and
to corer those spots with about four inches of cover those spots with about four inches
of fresh, strong manure. This is allowed to of fresh, strong manure. This is allowed to
lie there until the beds are to be dug orer for planting, when the soil will be found as
for for planting, when the soil will be found as
rich and mellow as any one could desire. The arailable fertility has leached into the soil, while the corering has protected it from the heary rains that beat down and pack naked soils. Then planting-time comes rake off the coarse litter, loosen the soil with a fork and sow the seed, and you will be
pleased with the fine growth the plants will pleased with the fine growth the plants will
make. Asparagus and rhubarb should be make. Asparagus and rhubarb should be corered the same way-four to six incles
with strong fresh manure about the first November. This is left on until growth begins, then the coarse litter is just moved off the crowns of the plants and left to decay beside the rows or hills.

Hoboes Almost every farmer is called on at hoboes who wander up and down the land living on the contributions of the generous soil-tiller. Some of these chaps ask for soruething to do to earn a meal, and it wil be found, generally, that these are working men in lard luck, and it is a good idea to encourage their desire to keep their hand in, so to speak, or it might forget its cunning them a good job. Offer the next caller a corn-knife or brush-scythe, and indicate about how many weeds he may cut from the fence rows and corners for a generous supply of bread and milk. If he is a worker he will lay the allotted number low in a shor feeling" he will quickly decline the faror.

Weeds $\begin{aligned} & \text { Despite all one can do the weeds } \\ & \text { will grow. Those scarcely notice }\end{aligned}$ able this week will be as high as one's head next, and the only thing we can do is to cut and slash early and late. The best tool hare ever used for this purpose is a shor scythe-not arush-scythe; they are to heary-a blade about twenty inches is length attached to an ordinary snath. I
these cannot be obtained get the shortest these cannot be obtained get the shortest
seythe to be found. In cutting large, hard weeds cut upward and with the heel of the blade. If one is careful weeds of any size ca be cut without bending the blade or turning the edge.

Grading Roads It has been demonstrated early sumer is and again that spring or early summer is the proper time to grade roads. Grades made at that season become packed hard and solid during the summe and remain firm enough to shed water in winter. Every man who has done any work on the roads knows this And he knows, further, that all grades built in the fall of the year remain soft until the followins spring, and if we have much rain or freez ing and thawing during the winter they be come veritable beds of slush and remain so Knowing these things it would seem that people who hare to pay the cost of building and keeping up the roads would insist o haring the work done at the proper season yet I see farmers-the men who use the roads and pay for keeping them up-on orerseers tell me they could not get them out to "work out their tax" any earlier, and a it has to be done, "according to law," they are doing it now-making trouble for themselves. Many times I have heard that the farmers are their own worst enemies, an seeing this road-butchering going on one is almost compelled to beliere it

> Fred Grcadt.

## the value of bran

Experimenters are studying the question of compressing wheat-bran into bricks for export to Denmark and other Europeau dairy countries that buy American feeding stuffs and then compete with American finished products in the world's markets. Bran is especially useful for feeding in con junction with corn-meal, which is concentrated and tends to "pack" in the stomach. It is a food rich in protein, and is known to contain a large amount of the nitrogenous element of fertility in soils. Wheat is known to be extremely hard on soil, and the


## FARM THEORY AND PRACTICE

Harne prop are more bushels of potatoes grown
in the world than there are bushels wheat or corn. In the Unite States the uumber of bushels of potatoes is not nearly so great as that of the leading rains, but a full crop for us means abou three bushels for each inhabitant, or ore wo hundred million bushels. The primitive way of harresting the crop was with a hoe or fork, and a big acreage is yet dug by this method. Then the rule was to check the hills, placing them three feet apart, a good hand would dig an acre of potatoes in thre three and one half days, picking the potatoes into baskets and emptying then to ples the in wa or grass, he fiel of checked potatoes was three or four
dollars, according to the yield and the dollars, according to the yield and the condition of the ground. I hare used cheap and costly diggers, but if I could now have potatoes harrested for three dollars an acre I should not want to own a digger of any kind. Ahe man with a hoe" can get them clean, does not bruise them, and leares the teams free for other work, But potatoes yield best when the hills are comparatively close, and many grower want ten thousand hills on an acre. The planters do not check the hills, and drilled potatoes cannot be dug profitably with ho or fork. Hence the need of diggers drawn many kinds, good, bad and indifferent.

Coxcerxing Digelers.-The very chea digger is a sort of double mold-board plow, with a few steel prongs to sift the dirt away frou the potatoes. I hare used one such digger with fair satisfaction under some conditions. If the potatoes do not "straggle" in the hill, if they are not rery deep iu the ground, and if the surface of the ground is clear of grass and weeds, such a digger does good work on level land. Thousands are in use, and are labor-sarers. But pota toes should not be planted at the surface and if the planting is fairly deep and the ground loose the lowest tubers in the hill are too far below the surface for the cheap digger. It must be run so deep to prevent cutting the potatoes that it has too much loose soil mixed with the tubers to handle all satisfactorily. The soil that is thrown to each side and that which sifts back into the furrow covers the potatoes, and pickers do not do good work. With such a digger I have fouud it necessary to run twice in the have fouv to get a clean job of work, but this is expensive. The cleanest digger is one that elerates all the ground that is in the row, carrying up the soil, potatoes, rines and any grass that may be in the row, sift ing the soil through screens into the furrow,
throwing rines and such stuff to one side, and then dropping the potatoes upon the ground that has been made level by the soil that has dropped back through the screens Such a digger does clean work, and reduces man's labor to the miuimum, but the drail backs are the costliness of the machine and the excessive power required to run it. In compact soll four horses find the work rer helf, all depeuding upon local conditious, but it is my experience that the costly digge is the most nearly satisfactory, being the cheapest, everything considered.

Using Boxes For Handling.- Bushe boxes are a good investinent for the potatogrower. If I were growing only an acre a
year I should have these boxes, as they are serviceable in many wass on a farm. The hold a bushel of potatoes when level ful and can betiered upon the wagon to any conrenient height. Fifty make a good load when drawing potatoes from the field. The piekers fill that number and then hand thel up to the driver of the wagon, who can unors fill fifty other bowes If the potat pich not for immediate shipping or need sorting not for immediate shipping or need sorting
they may be placed in ricks at a convenient point and covered with straw, or, preferably, put into a dark shed that has a dirt floor vhere the sorting can be done regardless of he state or the weather. In many section it is the rule not to pick up any excent merchantable potatoes, and thus save the labor of sorting at the rick or shed. The boxe position is to be made of the crop. The
trucker needs the boxes when drawing the potatoes to market, as they prevent bruising and lighten the work of delivery. Different rarieties can be kept separate. In delivering bulk potatoes to a car one man can unload as quickly as two with basket and shorel. The boxes are handy in the spring when seed is to be cut and taken to the field. A basswood box is light, and if properly made and cared for will last for a dozen or twenty years.

SAving Seed.-Most growers south of the fortieth parallel of latitude get the best re sults from seeds grown farther north. The potato is most vigorous in a cool latitude, and does not start its buds as early in the spring as southern seed. The objection to dependence upon northern seed is the difficulty in getting the rarieties wanted. There are scores of varieties more or less extensirely grown, and these are sold too often under whaterer name is most popular. Then seed can be gotten true to name, it is my experience that a change of stock is desirable if it comes from a locality espec ially adapted to this regetable. Many growers hesitate about using large potatoes fhrifty " on account of the expense. thrifty "seconds," grown from large seed, can be gotten, they may make as big a yield as cuttings of large potatoes; but the fact should be unquestioned that the continued use of small seed causes degeneration. Too many stalks are produced, the sets are too numerous, and the crop is found to be uudersized. In order to secure fewer sets from such seed a few growers thin their potatoes, but the work is laborious, must be done at a certain time for best results, and will be neglected by most growers. Potatoes for seed sare best when placed in small piles or narrow ricks late in the season, corered deeply with straw, and then with soil. Then the earth corering has frozen through

texis Etwe and Lambs
straw should be giren to retain the frost in the soil. The potatoes should be examined in the spring, and remored before they begin to sprout. Vigorous seed is the first prime essential in successful potato-growing.

DATID

## TUNIS SHEEP

I want to say iu the beginning of this article that I hare no sheep to sell. I am ready to give any information iu regard to history or the breeding of the Tunis sheep, but it will be useless for any one to write me to buy sheep, for I have none to spare
history
Cunis, formerly known as Carthage, is a mountainous country in uorthern Africa, and at one time stood first among the most powerful nations of the earth. The mighty Hannibal led the brave Carthagenian army orer the snow-corered Alps, and for seven-
teeu rears held high carnival among the flowery fields of Italy, in defiance of the combined Roman legions.
Such is the natire land of the Tunis sheep. They are a species of the broad or fat tail breed, and for more than three thousand years they hare been bred and raised in all purity among the mountains and valleys of Tunis, Egypt, Morocco and Algeria. They are first mentioned in the Bible in Leviticus
iii. 9. About twenty-three hundred years ago ILerodotus describes them as being in Syria and Palestine, and having a tail one cubit (eighteen inches) in width. From tine immemorial they have been the leading rariety of sheep bred and raised throughout the Barbary states in northern Africa and in Turkey; Persia and Arabia. In Turkey these sheep are bred partly for the fat of the tail, which sometines weighs fifty pounds or more, aud is manufactured into a kind of
butter that is greatly relished by the people of that country. In Tunis these sheep hare been bred more for wool and mutton and are far superior to any other bred of sheep ever introduced into northern Africa.
In 1779 the first pair of Tunis sheep were brought to America. They were placed under the care of Judge Richard Peters, of Belmont, near Philadelphia, Pennsylrania ho bred and raised theiu pure for many ears with remarkable success. The proved to be rers hardy and prolific, but fine merino wool was selling at si a pound nd mutton sheep were poor property Judge Peters sent a number of the Tunis sheep to North Carolina, South Carolina, Tirginia and Georgia, where they were bred and raised in considerable numbers until the Civil Mar, during which they were about all destroyed.

## Description

In color young lambs are generally red or fawn. As they inclease in age the wool becomes a light gray, but nerer black and herer pure white. The faces of the rams are generally brown or fawn, and the ewe brown to light fawn, with frequeutly a whit face or white forehead; legs brown an rhite. In form they are of good length with round, straight body, small, taperin neck, with a deer-shaped head and nose pendulous ears and short legs. They carry the head erect, and are quick, strong and actire. They are of medium size and fine bone. Mature rams weigh from 150 to 200 pounds; ewes, from 120 to 150 pounds. The shear from six to ten pounds of good mediun rool. They are rery hardy and prolific The ewes will bring two crops of lambs year, or they will bring lambs any month in the year the owner may desire them to come, which is one great adrantage they possess orer other breeds. But the raising of two rops of lambs a year cannot be continued ng without injury to the flock
I have uever seen one with a running nose
any season of the rear. They are the cleanest sheep I ever saw. They are rery gentle and yet full of life and vigor. They are hornless, but occasionally a ram will hare horns. I have never raised but one that had horns.
The tail of the Tunis lamb when first born is the same length and size as lambs' tails of any other breed of sheep with the exception of loose skin at the upper end next to the body. The tail can be docked long or shor the same as other breeds, but if the tail is not docked or ouly the little end docked it will grow to weigh five or six pounds on mature sheep. From the time they are four or fire weels old they can be easily fattenerl. They readily learn to eat and quiclly They readily learn to eat and quickly respond to fed gand are. They produce umerous breed of sheop in the world, umerous breed of sheep in the world, unTheye the Herino.
They seem to be especially adapted to hot climates, but will stand any climate. They are possessed of many good qualities
Our experience in breeding and raising
J. A. Guilliams.

## ARTESIAN IRRIGATION

Artesian irrigation is becoming one of the most independent systems practised throughont the arid West. The low ralleys having good watersheds and natural basins for catchment areas have immense underflow channels that can be tapped by sinking pipes from the surfacc. There are hundreds of valleys in the twenty states comprising the irrigated realm where artesian wells can be made successful reservoir builders The number of such wells now reaches fire gallousand, and the flow rangs from
minute. It is estimated that a flow of four hundred and forty-eight gallons, equivalent to one second foot a minute, will furnish enough water to irrigate three hundred and and twenty acres-one half section or two Western homesteads
Wells are sunk by boring or drilling, using pipes from one to six inches in diameter to its lerel and in immediately rises serer sereral feet abore the surface. The flow continues steadily throughout the entire season, uever diminishing except when numerous wells are put down in one field. If a tap is put on the end of the pipe the flow can be placed under control. The water has a high temperature, and never freezes during the coldest winter. Some owners of wells hare pipes carrying water ing ough their poultry-houses, thereby keeping an eren temperature throughout the winter and assuring plenty of eggs and lent ponds for ducks and weese, and supplies horses and cattle with warm water during the cold winter days.

The great James river valley, of South Dakota, is one of the largest artesian well sections of the world. In southern California the wells are more certain sources of water supply than many of the irrigation canals. Salt Lake City, Utah, has an extensive artesian well feld, where six-inch pipes are sunk within a few yards of each other and a large canal is supplied from this source. In central Nashington the wells are used for general irrigation. The water is held in reserroirs and sold at a specified rate for inch or cubic foot flow. It hastens germination of seeds because of increasing both temperature and moisture, and assists trees and vines in making rigorous growth in early spring, when most needed to withstand the rarages of pests and dangers of disease
In sinking wells for artesian water on must notice the contour of the country, and ascertain whether the watershed will jus tify the supposition that water can be obtained; but in most mountainous sections the underflow is abundant and pressur
great.

## EFFECT OF NITRATE OF SODA UPON

 TURNIPSIn some sections of the country where turnips are grown for stock-feeding hitrate of soda is commonly applied as a top-dressing when the plants are about three weeks old. As it is known that the presence of nitrates in excessire quantitie renders the food more or less harmful to the animal system, the question was often asked, ".Ire these turnips as healthful as those not so grown?" and a series of ducted to answer it.
Plots to answer it.
Plots of roots were grown with and without this fertilizer. In each case large returns were obtained from the plots fertilized with the nitrate, as was expecterl. The roots were fed to sheep of the same
age, dcrelopment and weight, with the result that the animals fed the nitrated turnips formed less meat than those giren roots grown without it. It is, howerer, worthy of note that the roots were eaten in about equa amounts of nitrated and non-nitrated by the different pens of animals, so that the difference gained in flesh by the sheep fed with non-uitrated turnips is about offset by the larger yield of the nitrated roots, since these latter could be fed for a longer time. Lpon the other hand, if this were followed in practice there would hare to be considered the extra hay and grain fed during this time. In some cases the yield was found large enough

## fceding.

During the experiments much trouble was experienced in maintaining the feet of the animals in a healthy condition, in all cases the difficulty being greatest where the stock
was fed upon nitrated turnips. Lpon the whole, then, the the roots grown without nitrate of
at least as far as sheep are concerned.

## RUST PREVENTIVE

The best thing I have seen or uscd to keep plows, cultirators and all other farm inm lamp-black about the consistency of pain,t lut it on with a brush or swab. If the implement is dry and clean when it is lut on it will never rust as long as the paint stays on. The beauty of it is that you in nou hare to do is to litel to it, stick it in the ground and go ahead.
.

Fenite frow

Te Froit Industri.-For many the cost of seed; the other, that of picking. years we have been imagining that
"the bottom was soon to drop ont of the fruit business." We had already more fruit than we could sell at the old higll prices, while every year a new lot o trees, planted during the years of good demand, were coming into bearing. W
expected such an outcome here, especiall expected such an outcome here, especially great many young orchards in this vicinity and with all of then bearing freely the aggregate crop must be rery large. Yet
even now there is no surplus in sight. The Bartlett crop has found ready buyers a slightly increased prices, and the outlook i for a small crop of apples, with a stroug demand and remunerative prices. We seen to hare made one mistake in our calculations and prophecies. We have uot taken into consideration the running out aud dying ont young orchards have been planted during the last eight or ten years. The cry of overproduction had frightened the would-be planter. The younger orchards planted jnst before that time take the pla the old trees that are now beginuiug to gire out But that is a bout all. Neglect is beginning
to tell. The crops are not gaining in rolnine to tell. The crops are not gaining in rolume that more trees just now are giving out and actually dying than are replaced by recent planting. At the same time the population has increased, and the taste for fruits has
become much more general. People have found out that fruit is a good thing, and the will and must hare it. In short, the cry o overproduction has spent its force. A fruit an orersupply: Snch conditions as we had in 189\%, in the apple business, may not rery soou occur again.

This vicinity is one of the foremost apple producing sections of the state and the Inited States. It looks like a rast orchard Iet look at the trees! They are in bad shape-neglected, blighted, often dying, and I caunot see for the life of me how the older ones can be restored to their former thrift and usefnlness. There seems to be but one remedy-the ax. The fundamental mistake that has been uade by those who planter these orchards-namely, unreasonably close planting-is now showing its doleful results staud only thirty feet apart. The branche of adjoining trees are interlaced and interwovel. You can't get in between with shonld be done. There is no chance for a ray of light to reach the grouud anywhere between the trees. Insects have full swar Diseases attack the trees without hindrance If there is any fruit it remains under-sized, neighy, insect-eaten, colorless. Some of mave tried to neighbors have tried to find a remedy in
trimming the trees severely. I beliere that the only thing to do is to cut down every other row diagonally, or in many cases erery other row and every other tree in the
remaining rows. Then plow and cultirate the ground, and spray.

New Plantings.-Very few people are going to apply that remedy, however, and I can see no salration for the old orchards
otherwise. So instead of an increase in apple production we are going to have steady decrease. Now, if ever, is the time to begin setting out new apple orchards. But whoever undertakes it must try to avoid the mistakes which were made and are still being made in the planting and management of the older orchards. Set apple-trees not hoed crops, such as potatoes, beans, cabbage or strawberries, currants, gooseberries, etc., between the young trees. Jerer, never sow grain in an orchard, unless it be oats and peas to be cut green. Use manures freely for the hoed crops, and gire the best of culti-
ration right along. Spray Bordeaux mixture and paragrene two or three times erery season. After six or eight years of such management quit growing any crops in the orchard except fruit. Plow and harrow in the fore part of the season, might sow crimson clorer iu midsummer, and this may be allowed to winter-kill, or at
any rate be plowed under in spring. That is the way to raise good apples, and to make them pay big. profits. I still beliere in
E.arly Peas.-I am still in doubt whether it is rery proitable to raise green peas for expense which seem to be so considerable as to cut the profits down to a rery low point, Seedsmen charge us \& a bushel and
upward for the varieties that are best to upward for the rarieties that are best to
plant. In theory the problem is rery simple. Get a start and grow your own seed. For some reason I have nerer yet succeeded in
growing my own peas for seed. Our people growing my own peas for seed. Our people
nsually gatlier the bulk of the crop, and nsually gatler the bulk of the crop, and
the leariugs are hardly ever considered worth harvesting and threshing. I will hare to turn over a new leaf and plant a patch purposely for seed. It is true, with the half a cozen or more different rarieties we think we must have in order to hare change and a succession right along, it is fussy work to sare seed of them all. Tet this for market-garden purposes is hardly necessary. We may he able to buy the Alaska for earliest at a reasonably low price. We can also grow them as easily as any other pea if we want to hare our own for seed. The wrinkled peas are a little more difficult to grow, aud the seed is there-
fore more expensire. I would want at least three rarieties-Nott's Excelsior, Horsford's Market Garden pea and the Telephone, with its large pods and large peas. The last mentioned usually sells at a higher figure' in the markets than the others. But I woutd hardly know which one of these to discard if I had to be restricted to three sorts. Thus we have three or four rarieties of which it might be wise to grow our own seed. Of course, if the peas have bugs in of carbon treatnent; but that is a rather simple and inexpensive matter. Nost of the simple and inexpensive matter. Nost of the bug-eateu.

So loug as we only pick peas fer our own table the labor cuts no figure. But when we wish to put bushels of them on the market the question is how to have it don without being oboliged to pay as much or
nearly as much for the job as the peas will nearly as much for the job as the peas will
bring in market. The pods of the Allaska are bring in market. The pods of the Alaska are
rather scattering, but the crop is planted very early, comes at a time when green pea are yet scarce and briugs a good price. Nott' Excelsior, and to some extent Horsford's, grow in clusters, so that the gathering is dome
nuch more quickly than in the case of the ruuch more quickly than in the case of the
Alaska. The Telephone pods, on the other Alaska. The Telephone pods, on the othe
hand. while nore scattering are so large hand, while more scattering are so large
and plump that they soon fill a basket. How delicious any of these peas are, too, when gathered before they get too old! We would not tire of them if we had them on the table two or three times a week. I like to hare small portion of young and tender carrot and do not object to a little fried (fat) pork or fried pork gravy as a flaroring. I believe that we conld and should have peas in the home garden for a much longer period than people ordinarily have them. We had sereral nice messes of Horsford's Marke Garden pea in August, of course, we ha the different sorts all through June and July and I am only sorry we do not have any
more now. I noticed there was some call nore now. I noticed there was some call
for them on the part of my customers even as late as August, and I beliere they would find ready sale right along. Some years we can grow peas rery easily all summer and fall, but in other years the plants mildew badly during hot weather. Of course I have tried the much-advertised Gradus, or Prosperity, pea. I fud it rery early, and the pods and seeds very large. With rue, however, the pods are not as well filled as I would like, and the plant does not seem prolific. So fo the present, and while the seed is yet high priced, I do not feel justified in planting o recommending it for market. It is of fine quality, and a good thing for the amateur

As to amount of seed to be usea for giren length of drill I hare not yet changed my earlier opinion that heavy seeding is necessary if one wants a full crop. I would not plant more than two hundred feet of row with one quart of seed of any of these varieties. This sows the smaller peas of the Alaska rariety more thickly (in number) than the larger ones of the wrinkled sorts but the Alaska can stand closer in the rov
than the others.
T. Greiner.

Intensive Gardexing Instititefe, o Philadelphia, says, "We are working awa at experiments in strawberries that cal the growers of this favorite berry. the great questions for the farmer just now packing, shipping and marketing?
the norway maple
T'uquestionably the Xorway maple (.tce plantanoides) is, all things considered, thee
nost desirable of the nunerous shade-trees most desirable of the numerous shade-trees
that line the beautiful streets of Washingthat line the beautiful streets of Was ingtou, D. C., or adorn its many extensive and orons growth than the sugar-maple, and the branches are more closely set on the trunk of the tree, and the wood is so strong and pliant that the most severe wind-storm rarel breaks one of its brauches. In this respect it is superior to the sngar-maple and many times so to the ordinary red or silver maple which is so generally planted throughout the United States. The Norway is evel more beantiful than the sugar--1maple. The
head is some what rounder and its leares are larger and thicker. The leares in autumn larger and thicker. The leaves in autum
turn sometimes to a fine yellow, and at others to a brilliant red, and are alway: others to a brilliant red, and are alway
well colored. Any reader of the Faram as Fireside who has any friends living in Tashington should ask them to kindly
ather a few of the seeds which are now gather a few of the seeds which are now
beginning to ripen, to gather a few dozen and send them by mail, so that they can be planted this fall, or kept in a moist place and planted next spring. This maple would form an excellent wind-break on the western prairies and exposed places. It cannot be too highly commended as a most usefu ornamental tree.

## late bearing

Complaint is sometimes heard that apple orchards eight or teu years old do not bear any fruit. The fact is the trees are not old euough. Trees can be stunted aud dwarfed into beariug crops before this age, but trees en years old, if well cultirated and fed, should be busy making heary wood growth and much wood growth and fruiting do not go together. Many rarieties do uot begin o bear much until twelve years old. Such rees can be forced into earlier bearing by stopping cultivation and seeding dowu to grass, but it is certainly better to keep cul-
tivating aud feeding until the tree gets ready to bear, when it will be so much larger and its capacity so much greater that the size of the crops will more than compensate for the wait. Such trees, too, will be longer lived than trees which have been stunted and forced into early bearing. Orchards should be cultivated up to the middle of summer each year, and by the time they are twelve years old the trees will want all the ground.


Mold on Cherry-Ieaves.-G. S., St. Marys. Ohio. The leaves inclosed are covered with a
uold which commonly attacks chenry-leawes. It uold which commonly attacks cherry-leaves. It: and in closely shut-in places during July and August. Where the trees have a good circulation of air it seldom occurs ahundantly. It may he prevented hy sprayiug with Bor sut in jut in good locations it is
Willow Cuttings-J. I., Rancher, Montana. Willow cuttings may be safely planted at any time in autumn after the middle of September. Nalie ne cuttings from one half to one inch in diametel and sixteen inches long, and put them in so deep It is hest to put them in somewhat slanting position, and pack the earth around them very solid. On the approach of winter cover the whole top of the cuttings with earth ahont three inches leep. In the spring rake off this covering so the tops will show. If the ground is too dry to work
well in the fall it cannot he done to advantage well in the fall it camnot he done to adrantage. hut in m
cuttings.
Leaf-blight.-E. D. W.. Hodges. Tcmn. Yom pear-trees are afrected with what is known as leaf-hlight, which may sometimes entirely defruit the is conmoniy the case with the Flemish ruit. as is commonly the case with the Flemish cracks. The treatment of this disease should begin in the spring, when the first pears should be praver with Bordeaux mixture as soon as the have developed. This treatment should he re peated at intervals of two to four weeks intil the middle of summer. In case treatments are needed as the fruit nears maturits, the copperthe Bordeaux mixture, as it does not discoler the fruit.
Lichen on Applebark.-W. H. M.. Cass
Bridge, Mich. The specimen of hark which yout Bridge, Mich. The specimen of hark which you sent is covered with what is known as lichen,
which is closely related to the mosses. It is not which is closely related to the mosses. It is not what is referred to as scale, by which is ueant a
small iusect which becomes fixed in place and has a hard. scale-like shell. The lichen on your trees indicates that the trees are not very thrifty although this is probably not the cause of the
trees dying. The canse is more likely to he found in the horers in the trees, or in the lack of fertility in the soil, or hoth. However, it is a good plan to
remove these lichens, and it can he successfully done hy spraying with Bordeaux mixture, which acts as effectually on this as on any other fungus

Twig-borer-Bone-hlack-A.C. R.. English
Tunn, La. The twigs which yon incloced are int fested with some twig-borer. the only remedy for
which is cutting off aud hurning the infected portions while the worm is still in them. This little more than to gire tbe trees a rather vigorous pruaing. I do not think that yon will be trouhled With it much after this year, or at the latest,
after the second year.- The bone-black sampie Which yon inclose is a good fertilizer, and what
is known as spent hone-black is the hone-hlack which has been used up hy refineries and It is used in waking superphosphat . rrohably the hest way to treat it if it is to be put into good condition for manue it can be brought fermenting stable manure, by which process it beromes softened and is made quite soluble. you wonld have no tronhle in selling it to fertilizel manufacturers, if there are any of these in your icinity
Bninclies on Rasplberry-roots.-C. H. TV. Conneautville, Pa.. Writes: "I have a field of
London red raspberties. Many plants are dying. On digging them up I find hunches on the root from the size of a pea to the size of a hen's egg. Reply:-All trees and plants that have hunche on the roots should They do not always indicate the presence o atoid worms have injured many berry-bushes and their presence is indicated hy hunches on th ous, as I know from an experience of a few year ago with a hlackherry-patch that was badly crops. In y our case"I should be carefinl not to us the plants for setting elvewhere. and would for producing fruit. I wish you would for ward to The bunches on neuatoids or hy wroolly-trees might be caused by generally caused by phylloxera. which is the
grape-root louse. On clover, peas, heans te commonly find many small bunches or tubercle which are helpful rather than injurious.
Best Strawberries-Raspberry and R., Oden, Mich. Prohahly rou are as ils. succeed hy planting Warfield and Haverland strawherries as any, hut since these are both of them pistillate sorts, every third row should he o Bederwood or some other desirable perfect flowe ing sort.-Raspberries and hlackherries ar easily raised froun seed. The herries may be crushed in twice their hulk of dry sand and place spring, when they should be sown in a fine bed spring, when they should be sown in a fine bed
or in a hox in the house. They will generally frut well the third year. The reason why this is widely, and very few-perlaps not one in a nd-are as good as our hest-named kinds. The are raised generally from suckers, tip layers o to plant theru. - No, the huds will not dry up i July and Allgust, which is the time to bud, pro viding the plants are in good condition and the
huds well inserted. Budding is sometimes done in the spring. In each case the buds are put heneath the hark, and the sap flowing freely keep them moist if they are well wrapped in place. In lowa and Mimmesota. where the clinnate is especially dry in the seasou for hudding, much
care is taken to wrap and cover over all the BIossoms Faling and. Wres Creek, Mont.,
wites: "Kindly tell me what I can do to my young apple-trees to prevent the blossoms falling off instead of fruiting. The trees are healthy looking, and I see no signs of insect pests, hut they do not fruit. Both last year and this they blossomed, hut the stalks soon thrned yellow and if and fell. I would like to know the cause, luended for non-fruiting. Would it do in this case or would cutting the roots answer? - Also pleas tell me how long hop-seed remains in the groun hefore it comes up. I planted some in the spring
of 1898 , and see no signs of it yet. I hought the of 1898 , and see no signs of it
Refle:-It is often a good deal of a myster why trees flower hut produce no fruit. It may he contunled rains at flowering-time, drying wind, the flow growing rapidly. In four case girdling woul
grow prohahly do no good, since all it is used for is to induce the trees to produce fruit-buds, which you tree does anywas. I think you had hetter be
patient, and that they will come into bearing hefore long. If, however, they are all of on Variety, that of itself may be reason enough fo their not fruiting. - The hop is usually increased by cuttings of the most healthy old shoots. Tw huds are required-one heneath the grouud, from which the roots start. and one ahove the ground
from which the top starts. When from which the topl starts. When grown from
seed many of the plants will be unfruitful, seed many of the plants will be unfruitful,
there are both male and female plants. The see there are both male and female plants. The see
should start the first year after being planted i not too dry.


P

## FEEDING IN YARDS

 rITRr in confinement must be feddifferently from those which hare a free run of grass or woodland, in all the leares, and scratching away, around and under old logs for their favorite grubs and bags. Th your chicks and hens carefull you do not realize what a large amount of grass and green food they will eat in a day been overfed with grain or scraps. Fowls need coarse food or something that gire bur feed the as nutriment. Even though tical food ther obtained for themselres on a good run it would not be the same, as they camot select for thill health, and, therefore, in confinement the same food would be too mnch for them This is why successful raisers of poultry in forvis in straw, thus compelling them to work for it. Exercise is necessary for thei health, but if the food is composed more of nitrogenous elements and less of the car bouaceons (especially of the oils and fats) front. There are people who pamper their ful in the poultry business, as lard or baco is in the kitchen, but not as a regular diet. If you want to fatten poultry or warm thel on that account not laying, and needs richer food, corn is excellent, but should not be giren almost exclusirely, especially when incur a serious loss, where a dimcult to of fowls are kept, by injudicious feeding All kinds should hare a sufficiency of food without being orerfed. If the birds ar lay in a state of seini-starration the hens killing become so attenuated that a rery considerable outlay is necessary before the can be brought into proper condition for the table, and will lack tenderness and delicacy
To feed too liberally is wasteful, and in the case of laying hens decidedly objectionable for a hen when it becomes rery fat cease to produce $n \mathrm{p}$ to the arerage, and is subject to rarious ailments. Full-grown fowls
should hare just as much as they will readily eat and no more. Barley, either in whole or in ground state, is fairly economical used eltod. Oats and oatmeal are of for fattening for the table. Pieces of bread and regetables of all kinds may be ntilized, and seraps of meat chopped up rather smal are of great value in feeding fowls shut up tain worms and insects. Potatoes boiled and mixed up with a sufficient quantity of coarse bran, when scalded to form rather a
a stiff paste, are useful for helping out the corn.

MAKING GOOD WHITEWASH
Some kinds of whitewash will remain while other kinds seem to soon disappear whitewash, and a person must know how to slake lime properly or he will fail to accom plish his object. There is too much guess lok. It is not an uncommon thing to place lime in a ressel and put less water on it than is requilar and lumpy, though sometimes to much water is used and the lime is sider lime as "lime" the world orer. They the lime found in the United States contains more or less carbonate of magnesia, which verted into whitewash. Pure white lime should be sclected, and should be slake sereral weeks, or eren months, before it is
used. It is a good practice to slake lime in the fall for either whitewashing or plaster state in air-tight vessels during the winter, being sure to keep the lime corered witl thoroughly slaked and ready for use, retain
ing its adhesire qualities, which have been improved by the time giren it. To slake ime properly three pints of water to one pound of lime are required. Lukewarm rater is the best, which is not always to be had when slaking large quantities of lime If slaked quantity of water in first, then put in sary quantity of water in first, then put in
the required amount of lime. During the progress of slaking it is well to corer the box or ressel, and at the same time it should be stirred occasionally for the purpose of
placing the lime so that all will receire its share of water. One precantion is not to put the lime in the vessel first and put the water on by turning it from a hydrant or pouring it in with buckets. If you do you will slake the lime granular and lumpy.

## POINTS ON POULTRY-HOUSES

 It is difficult to design a poultry-house the expense of constructing elegantly designed and elaborately built pouttr houses may adapt them nicely to the eye, but the hens may not be comfortable, and will not reward the builder for his pains. In winter the main requirement is warmth, and a low ceiling, dry floor and tarred-paper walls, costing but rery little, will induce better results than the expense of large sums to suit the conreniences of the poultryman. Ind this is the error all fall into-that of constructing the poultry-houses for their be to consider the welfare of the hens first be to consiak the wreferences of the owne regarding his conrenience a secondary regarding his conrenience a secondary mat because of lack of convenience, the hens may prefer it to be just the reverse, as will be warmer; and though one may wish the door nearest the dwelling-house, it maythus be on the north side, allowing the cold blasts to creep under it and chill the birds. It may be preferred to hare a particular ocation for the house, and that it face point of the compass corresponding with some other building or object, but the hens may prefer dry ground and the southeast, so as to get the sun's rays, as well as protection from the northeast storms. In building poultry-house these matters should receive The best poultry-houses are those the cost. sually built according to location and for the conrenience of the fowls.

## KEEP The best

Only the best fowls should be retained, as due to careful selection. Erery pouitryraiser keeps, or onght to, a portion of his stock for his especial purpose of breeding. These are the finest specimens of his flock, carefully selected for their good qualities, and set apart for the perpetuation of their and set apart for the perpetuation of their race. Feeding the breeding-stock is a problenl in itself and somewhat different from that set by the production of the greatest greatest amount of flesh and fat. What the greatest amount of flesh and fat. What the not always the greatest uumber of eggs, but also eggs that will hatch the greatest nuulber of the strongest, most rigorous, healthiest and most useful chickens. To secure
the result the feeding must be of a character o sickly fowls will be the progenitors of sickly chickens. Eggs from such will produce weak chickens, many of which will die before reaching maturity:

## FORCING AND LAYING

If there is any mode of forcing fowls to lay when they are not laying it will be Gratefully receired by the inexperienced. Forcing does not depend so much on the amount of food as upon the management.
When a hen lays an egg slie produces something and will demand more food. If she lays she thus gets rid of the excess. But a hen that does not lay cannot stand forcing. For that reason it has been cautioned against feeding layers and mon-layers together.
"How many eggs should a hen lay" and
"which is the best breed" is thus explained. Feed less corn and more meat and the breed is raw or cooked-raw preferred-but even when fed on $n$

## GREEN BONES

A mess of green bones at least twice week will always prove beueficial, as the proride lime for the shells and serve as a
change. Some do not beliere in feeding grain at all in the summer season, preferring to allow the hens to work. A pound of green bone cut with a bone-cutter, twice or three times a week, gireu to a dozen hens a night is better than feeding grain, as the ens nearly always come up with full crop wheu they are on a range. When in confine ment in late fall or winter the green bon vill continue to be of raluable assistance

## EXHIBIT YOUR BIRDS

There will be some of the largest poultr hows erer held in this country during the coming winter, and all who are interested should begin now to select choice birds for the exhibitions. Keep the joung stock in good growing condition, and make up you mind that your birds are as good as any owned by others. Do not be frightened away by fear of competitors. Many person who hare fine birds fail to exhibit and then risit the shows to discorer that they hare fully as good birds at home. Aim to excel and endearor to take the prizes.

## NOTES FROM CORRESPONDENCE

 Remedr for Lice-Preserting Eggs.-I wish to contribute something for the benefit of the of small brown chicken-mites boil cedar limbs an foliage in a large kettle. Make a strong decoction, wash the hen-house thoroughly with soapsuds. and then wet it all orer, roosts and all. wit market, gather road dust free from manure and lumps, have it perfectly dir, and put one layer o
dust and one laser of eggs, being careful uot to let them touch each other. Alwass gather eggs the day they are laid and pack away with the small end downward and keep in a dry place
The cooler, the better. You will hare fresh erg Brownfield, Ill. They will not freeze in the dus
L. C. S.
Tests of breeds.-I saw in the notes from col Pa., had thirty-two Plyuouth Rocks and Whit and Brown Leghorns, and as this is the first year for poultir for myself I should he rery gla
to learn which kind are the most profitable an from which eouid one obtain the most profit. hoins this year, and I think they are the most profitable, as they are good hustlers and are said a test next year and sell off my old hens which I have this year, as they are mixed chickens, and keep only the full-hluoded Leghorns. As soon as they commence laying I will gire a report at the
end of the year. I purchased a remedy of a man end of the year. I purchased a remedy of a man
and when my chickens become droopy I shal commeuce doctoring them myself, so I will no lose any. I shall be glad to hear from others who have had some experience in raising Leghorn my chicks run wity
Cantril. Iowa.

## INQUIRIES ANSWERED

Feeding Meat.-J. N.. Troy, Ohio, writes: In feeding meat to fowls where fresh meat ca meat serve as a substitute?."
REPL:- It would be lifie
Rerly:-It would be difficuit to find a subst meal) will serve as a partial substitute.

## Hardy Breed.-M. R. E., Hrdevile

rites: "I have Minoreas and Light Brahmas, ut wish to keep only one kind. I prefer the on adrised to
some advie

There is no breed that can surpas the Light Brahmas in hardiness and adaptabilit a cold climate.
Linseed-meal.-E. G. S., Corry, Pa., writes: I understand that linseed-meal is an excellent Iood for fowls., Should the old or new process
Reply:-The new proeess, which removes the oil more completely, should be preferred, as thic
oily portions are not so desiralule for poultry as oily portions are not so desiralle for poultry a
the nitrogenous and miueral clements. Feed it the nitrogenous and miueral clements. ach a weck, allowing a heaping teaspoon Soft-whell Exms.-W. B. T.. Ocate, Okla hells? They do my hells lay eggs with sof of the place, and are thilifty, Roeks. The eggs also fall to lateh."
Reple: - As a rule, eggs having soft shells are aked by fat heus, and it is probable you are mis one-m. bone-m.
ration.


DIETZ VESTA Tubular Railroad Lantern combines th strength of the reg. ular R. R. Lantern
with the fine lightiving qualities Ares.

Are you not tired
the faults of the ow using? The uring this one which has no faults. It gives ane light, and the wind does nt affeet it. The wiek does not char. I regulated from the outside. Send a $\$ 1.00$ bill for the Lantern (we
R.E. DIETZ COMPANY, 83 Laight Street, New York City Established 1840.

100,000 FREE TREATMENTS

EXPELLO MFC. CO.

and summer When red Green Cut Bone


Don'I Pay High Prices TO YOUR DEALER.
Advance Fence



SHOEMAKER'S POULTRY
P99, 123 ,

 it Inhelsen
atalog free

Poultrymen's Supplies of fall kinds. Catalopme frei
DEATH to LICE On hens, chick kens. 84.p. Rook Free.


A COOD WINOMILL
MPERIAI Mith patent internal gear and malleable iron frame. Write
Mast, Foos co co.,
4 River st, Springitid., ohto
Largest manufacturers of Steel Wagon Wheols and Handy Truck Wagons in America, Guaranteed su-
perior to any other make

Metai Waita us
Metal Wheel Co
havana, iminois


NEW STYLE FIVE-BEAD BEAUTY PIN


0THE BOY ON THE FARM
man who has spent the first twenty-five ye
of his life in the average farm home o
rustic traits so as to be a poolished gentleman.

## This polish

stant training; but he can begin as a boy t
pactise and obserre sulue things which win
Probably his table mamers are the firs when away from home, have not refused to
sit at the table becanse they knew they would be so awliward that they conld not be comfor table. hmgry, while, in fact, half famished; and in
finalls prevailed upon to be seated, the probably dropped their fork or knife, thei
elbows hit those on both sides of them, and they took no pie because they linew the could not eat it with their fork.
Home is the place to overcome these diff culties, though members of the family ma boy can practise and acquire a few gene priuciples of table etiquette. Under no
circumstances should he carry food to the mouth with the knife. He should not ea
pie from the land, but break it in small pieces on the plate, and as a piece is broken
conver it to his mouth with the fork. There convey it to his mouth with the fork. There
are to-day many men of good table manner who, if they would be frank, would admit
that pie tastes much better when the whole pieee is taken in the hand and each mouthful bitten ont. But table etiquette will not attract attention when away from home should break himself of the habit

At all times he should teach himself keep his elbows as near the side of his bod as possible. With most boys the tendenc is to stick out both elbows as far as they wil
reach, thus occupying as much space at th reach, thus occupying as munch space at the
table as two boys shonld. He usually butters and bites out monthfnls, each bite leavins a semicircular notch varying in size accord-
ing to the size of his mouth. Only a small ing to the size of his mouth. Only a smal
piece should be buttered and thei eaten. If he will keep his mouth closed when cherring he will soon break. himself of the noisy circumstances whatever should he ever use
The boy who has corrected himself of these
The the table.
few particulars has laid a foundation for further improvement which he will himself make by observing those whom he
practise correct table etiquette, and short time he will be at ease at any table here he will be seated.
He will or ought to have hands tanned and rough. I say ought, because if he does his
share of the work they will of necessity be in this condition. This troubles many boys who want to make a decent appearance, but of it. Though their hands are tanned, large and rough, they can at least be kept clean when the day's work is done. A nail-brush
can be gotten for twenty cents, and with it and a knife the dirt can be remored from the sides and from under the nails, and soap and water will clean the rest of the hands. This,
understand, is after the day"s work is done uncerstand, is after the day"s work is done,
for no one who knows what he is talking for no one who knows what he is talking
about will say that the boy can keep his hands clean during the day. This particular thing of keeping the nails clean is so much
neglected even by those with soft and white hands that the boy who does attend to it makes a favorable impression; and any sensible person is more favorably impressed
by clean hands that are rough, large and tanned than by hands that are unclean though small, soft and white. But never clean the nails in public, and never under any prorocat
with a knife.
He can at least clean his teeth once a day One who has never noticed this will be surprised, when he does observe, to find how many people neglect this one thing; and Don't eat hard ondy, eithe
Don't eat hard candy or shuck peanuts at a lecture or any meeting of a similar nature. This is one of the common mistakes of boys,
and one of the worst. And any one who has and one of the worst. And any one who has
ever been thus disturbed knows how one who has committed the offeuse is regarded. Don't swear or use tobacco. It will not good opinion you desire. There never yet both. It is no unusual accomplishment, and hence can't benefit you. If, when you have

xcused; and when with his nother, sister
$\qquad$
then stand asile for here to enter anhead of
limu. He can do these little things at home,
$\qquad$ nake blunders which will make limm blush in shame for years after when thinking of

## Enameline Stove Polish paste, cake OR LIQUID <br> 

Afrer using Enameline No Housekeeper will ever use any other Brand. J.L.Prescolt\& \& Co.NewYork解


 IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART.
 IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART. IRRIGATING GARDEN CROPS
I noticed in your issue of August 1st a
comnunication from IT. H. Jenkins on ir-
rigation. Now, while his plan may be
feasille, I believe the California way is
better. He claims that by mulching between
the rows it kepeps the roots cool and moist,
as they are near the surface. The better
way is this: Plant the rows as near on a
level as possible. When you wish to irrigate,
make a diteh with a hoe or a horse shovel
plow between the rows and turn the water
in. Never wet the surface of the gronnd.
If your use a garden-hose take the nozzle off,
lay the end of the hose in the ditch aud let
the water run. By irrigating deep the roots
will grow down. After the water has run
sereral hours turn it off, and when it has
all soaked into the ground level the ground.
The water is thus all where it should be,
and none escapes by evaporation.
W. E. HART.

USE PURE-bRED ROOSTERS With a small flock of fifteen hens, which
hould raise during the season a hundred should raise during the season a hundred chickens easily, the use of a flull-blood cock
of some large breed will add one hundred pounds to those hundred chickens if allowed po grow to maturity. The extra hundred
pounds of flesh will be laid on without any

## additional cost of feeding, for a scrub

## This gain can be made by the purclase of a

 single good rooster, and should not cost or
## EXTRACTS FROM CORRESPONDENCE

The second crop of alfalfa now being cut is good Corn promises a good yield. There never was a better prospect for sorghum and millet. Cows are
worth from $\$ 35$ to $\$ 50$; fat cattle, from $\$ 4.75$ to $\$ 5$ a hundredweight; fat hogs, $\$ 3.80$ to $\$ 3.90$ a hundred
weight. A few farms are changing hands at from $\$ 12$ to $\$ 20$ an ac

## Superior, Ne

Front Arkansas.-I live in a picturesque bit
of country in northern Arkansas. The land i of country in northern Arkansas. The land is
rough and hilly, but very productive rough and hilly, but very productive. Corn, oats,
wheat, cotton, potatoes and all kinds of garden regetables and frinits grow abundantly here raising is the chief work for the women. This is and nearly evcry one can own a home of his o

## Beall, Ark

Frox Kirsas.-Cherokee is the southea
It is also a good farming countr
oats, flax. cane and millet are the leading cro All kinds of vegetibles do well. There is a gon farm. The winters are generally mild, last winter being an exceptionally
changing hands, and the time is not
tion of 1,100
Cherokee, Kau.




nusic, and there is a necessary element of

 humiliating. The boy who has a theoretical knowledge of these things, and thinks to away from home, has a sad experience in

## SI4 Ezizi IT COSTS NOTHING

## 

 $1 \mathrm{HEVEv,W}$ PARLOR ORGANS AR A dig
LYON \& HEALY, onidacian, stir.



Bermnda Grass.-L. L. K., Shuqualak. Niss., tropical grass, and rarely ripens seed in this broadcast, and plowing under sballow. South
seedsmen can supply tbe roots for planting. Egy-plant for Cooking.-G. A. T., Spring tell when egg-plauts are ready for use?',
REpLI By T. Grener:-At the time when the seeds begin to fill and mature the egg-plant as-
sumes a rather dull color, and on the sunny side often turns yellowish. The egg is good for cul inary uses just as soon as it has attained any kind
of size, say from a goose-egg up, and so long as it

Draning Stable Floor.-F. R. M., Viema, needs filling up with new clay. The floor slants want to put in pipes or some other drain for the liquid manure. Could you suggest some plan for
this so I could save it, and also keep the stable Refix:-You may experiment with drain-tile put down under the filling of clas. But the usual to absorb all the liquid manure.
Tomatoes Failing to Set Fruit.-L. K bloom all right, but after writes: "My tomatoes tem cracks and the blossoms fall off. This is the
$\qquad$ of moisture, and sometimes a lack of it, cause There is also a possibility that the lack of some
element of plant-food (potash or phosphoric acid) may breventive except good culture.
Onions at the Sonth.-J. C. B., Inuffees boro, Tenn., writes: "Please name the best onion to grow in a large way for market-say to sow seed spling. Will the potato-onion be of superior
advantage to an onion that only grows one onion
from the seed? Can you refer me to a large south as you can?"
Repry Pr T. Greiver:-The potato-onion is
sonsidered one of the best and most profitable considered one of the best and most profitable
onions to grow at the south for northern markets.

 will go to seed rather than make good marketable
bulbs. I still believe that your best way would under glass in January or earilier and transplan Who can tell us of an onion-bouse in operation in
the southern states?
$\qquad$
VETERINARY
$\qquad$
Paralytic Pigs.-MI. D., Urbana, inl. Please

## A Sick Bull.-C. WV. Il., Melrose, Inl. It 1

$\qquad$
'Liorea.-E. G. B.. Muscogee, I. T. Chorea.
t. Vitus' dance. in dogs is an ailment frequentl eitber becoming fatal nor terminating in perf recovery, and especially if of long sta
be considered as practically incurable.
A Tuberculous Cow.-I. L. S., Port Clino me tbat the cow you received iu trade is a tuberculous animal, and therefore worse tha1
worthless, because endangering human health and life. I know wbat the law ought to be, that strictly prohihited, and tbat a releutless wa hould be waged agaiust that disease, wbicb in so and meat of tuberculous eattle, and probably kills diseases combined. But not being a lawser I annot answer your questiou, and have to adris

A Serious Case.-W. R. W., Amory, Mis Athough it does not appear from sour deirectly into the nasal cavity or into a maxillary suus from which the purulent discharge enter he nasal carity, your case requires a thoroug xamination, made possible, perbaps, only by fir: hust extend as well to the cavity of the mouth the nasal cavity and the maxillary sinus. The urgical operation will have to probably anoth argical operation will have to be performed. advise you to have the animal examined, and according to the result of the examination treated Infections a competent reterinarian.
Abortion.-M. E., Ogle, Pa. Your cows suffer from infectious abortion, a
disease caused by an invasion of bacteria, and in disease caused by an invasion of bacteria, and in
your case undoubtedly introduced by that Jersey cow you bought last summer. It seems that now the premises where your cows are kept are more cows yet with calf, have them at once reout of danger if not already infected; theroughis
clean aud disinfect stable and cattle-yard, wash he tails and the genitals of all your cattle severa days in succession with a one-permille ( 1 to 1000 ) olution of corrosive sublimate in water, and any furtber case of abortion should occur cremate
fetus and afterbirth and irrigate the uterus of the cow that has aborted with a one-per-cent place at which the abortion has occurred must be cleaned and be disinfected in a most thorough

Spayinus Meifers.-E. P.. Osage City, Kan the age at which to spay heifers depends upo he method cbosen. If the operation is to be per bile the heifer is set a calf, because then the tbat occur are less heary, at least in so far as a heifer. If, however, the operation is to be per
formed through the vagina (Charlier's method) it cannot be performed until the heifer is neari ull-grown, because until then it will not be pos
sible for the operator to introduce his haud into the vagina of the animal. Other'wise, I regan Charlier's method as the best and the least can osses, total and partial-the latter caused hy adhesions produced between various parts in the sulting in unthriftiness and insufficient growth-
are taken into consideration the operation o
spaying female animals is of doubtful value from n economical standpoint. I can only recommen it if a female animal-cow or heifer-is a nympho Probably a Case of Tubercnlosis.-L. C
ments of your cow proceed directly and indirectly ments of your cow proceed directly and indirectly
from one commoul cause, namely, tuberculosi
Toul say she had twin calves arriving ten day probably left out of consideration that twin calres fore the birth cannot be called a premature one

## ous after delivery cannot be charged to that

 "ause, especially as your statement that the cos very thin aud weak, and has beeu coughing f stence of tuberculosis. and that the more as
well-known faet that in tuberculous animals $t$ symptoms always become more conspicuous an
the morbid process more severe immediately aft
delivery. The difficulty in passing water is pro ome bruising, and may be some lesions in th internal sexual organs, than to a premature birth,
and very likely will soon disappear. I will not
$\qquad$
$\qquad$
$\qquad$as "Taenia expansa." As the host of the e
et unknown no precautlonary ncasures can beapplled except to keep the lambs away from such
places, pastures and shepp-ranges in which the ed by lamhs and hese tapeworms, however, can be successfully expelled provided
already beyond recovery. Tbere are several remedies which if properly administered will
cxpel tbe tapeworm of sbeep. It will suffice to
mention only two of tbem. 1. Potass. picronitric
to be givell to lambs in a close of from ten

## to be givell to lambs in a dose of from ten to

fifteen grains, according to the age and the size of the animal, and to be administered mixed with water in the sbape of pills. 2. Tartar emetic, to be given in a dose of eight to twelve grains, and aduinistered dissolved in distilled or clean raim-
water. When the worms are about to be expelled the lambs sbould be kept in an inclosure in which the worms can be foumd, because every expelled worm has numerous joints (proglottides) full of
eggs, and therefore should be picked up and at eggs, and therefore should be picked up and at
once be thrown into tbe fire to make a further propagation an impossibility.
Su-called Blacklem.-H. M. DeW., Mount Lebanon, Ky. So-called blackleg, ranschbrand German, and charbon ssmptomatique, French, is
which principally attacks young cattle (calves which principally attacks young cattle (calves bacillus of blackleg. This bacillus is a faculative parasite, and, it seems, finds an entrance into the connective tissue of the animal organism, in which it does its destructive work through small sores and lesions. To give a brief or incomplete deit will lead to diagnostic mistakes, and to give an it will lead to diagnostic mistakes, and to give an
exhaustive description would require half a dozen exhaustive description would require half a dozen
pages. an amount of space that is not at my dispages. an amount of space that is not at my dis-
posal. I therefore will only mention one characposal. I therefore will only mention one charac-
teristic symptom, namely, a rapid development of extensive crepitating swellings, most frequently in the upper part of a leg, near the shoulder or
hip, but also in other parts of the hody. The diship, but also in other parts of the hody. The disas never any more tban about two per cent of the number of the affected animals have recovered not. it can be of no use to dwell on theoretica possibilities. As to means of prevention it is different. becanse the disease can be prevented: 1. If young cattle are kept away from all such places in wbich an infection with blackleg has taken place, and in which, therefore, the blackleg
bacilli must be existing. 2. If where this cannot bacili must be existing. 2. If where this canno
be done the susceptible animals-the young cat be done the susceptible animals-the young cat-
tle-are subjected to a protective inoculation. Concerning the latter I refer you to the FARy And Fireside of April 15th and July 15th.
So-called Splints.-H. S., Cedar Dale, Kan
The term "splint" is applied only to ment (exostosis) on the inner (median) small metacarpal bone, making its appearance after the periosteum has been injured by too severe a strain upon the fibrous ligameut between the
large and the small metacarpal bones. Such splint causes any lameness only, except in the beginuing, immediately after the straining took place, if the morbid processextends to the knee or extends to the joint. The enlargement below the knee on the outside of the fore leg of your horse
is probably the product of a bruise sustained is probably the product or a bruise sustained by similar in character and apt to cause lameness if extending to the joint, is not cal-ed a splint. If in both legs the lameness has disappeared a treat ment is really not necessary, because the enlarge you only see to it that the horse is always shod in feet, and will effect a duly proportioned distribu tion of weight and concussion upon all three
metacarpal boues. A contraction of the ver metacarpal boues. A contraction of the rer
porous cxostoses can be somewhat hastened by various means, for instance by gentle pressure friction, by thoroughly rubbing in once a day mull quan a small pea on each exostosis. Such
exostosis will never entirely disappear, but it wi gradually decrease in size until, in some cases a least, it will finally slrink to such an extent that

## reatmeut is a pplied.

## Tubercnlosis.-R. H. B., Long Pine,

 If you had made a post-mortem examination ofyour cow that died the diagnosis would have bee
rery eass, but it cannot be made upon the fer
rather inessential symptoms you give. To com
ply with your request, and to give a descriptio of the symptoms occurring in tuherculasis, space, rould do no good, because a cow may have been a rule are not yet sufficiently characteristic to a very carcful and exhaustive examination, other hand the very first stages may already b
$\qquad$ nective tissue of the suspected animal a certain
quantity of tuberculin, but before this is done the temperature of the animal must be taken several noted. After the Injection, which, of course, mus tomperature again must be taken, say once ever a decided rise of temperature is taking place the if no inaller to be tuberculons, wherea the ammarked rise of temperature can be observe the disease and weyly dylue which can easily be sis. When death is already approaching no cause the vitality has buruerl so low that no eaction can take place. If you wish to have your ane tested, and no competent reterinarian

## Fall Grains

##  POTASH.



FREE FOR ONE DAY'S WORK!


HOS. ROBERTS


CURTIN JEWELRY CO., ATTLEBORO, MASS.

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
| TYPEWRITER HEADDUARTERS |  |
|  |  |
| SALARY ${ }^{\text {STS Prem }}$ |  |
|  |  |
| ASTHMA A Andily friver femedy |  |
|  |  |
|  |  |
| AGENTS ${ }^{\text {a }}$ |  |
|  |  |
|  |  |
| AD ${ }^{\text {or man }}$ |  |


| sing-Bu |  |
| :---: | :---: |


| Agents |  |
| :---: | :---: |
|  |  |
| SALESMEN |  |
|  |  |
|  |  |
|  |  |

##  <br> HELEN AND THE "CLAIM-JUMPERS' <br> By Hayden Carruth

n
As May 23, 1899, that Fugh Bennet arrived at Kampeska, in what was search forrtory of Dakota, in wife and three children were with him, and the four had traveled the whole distance from their former Wisconsin home in a big canvas-
corered wagon. Helen was the oldest of the children, a girl of fourteen, brown-haired, browno brown-skinned that her mother er an Indian Helen's mother called her an Indian. Helen's brother
Tom. no less hrown, was two or three
years younger, and the baby, a little moryears younger, and the baby, a little mor-
sel of humanity who had not altogether scaped the effects of prairie wind and sun, journer had consumed more than a month ince the wagon had been loaded with honsehold goods and a few farming implements, as was commonly the case with the "movers" of those days. Arriving at Kampeska, which was then the west-
ernmost town in that part of the country, with half erumost town in that part of the country, with half Bennett lost no time in looking abont for a desirable piece of government land. There had been a great inrush of home-seekers, and the better ccordingly left his family at a hotel, and in company with a "locating agent" named Harkins pushed farther west. The farm which Bennett had owned in Wisconsin had been rocky and unproductive, and life so far had heen a hard and cheerless struggle, so he was determined to secure good land, no matter how far he had to go. This will partially acconnt for the fact that he finally
selected a tract over sixty miles from Kampeska. It was certainly as fine a claim as any in the territory, and had the added advantage that it was within a mile or two of
doubtless be established.
When Bennett returned it was with glowing reports of the homestead he had selected. His and belongings aud enough lumber for the roof of a new house, the walls of which were to be made of sod. But the baby had been taken sick while be was gone, and the doctor said he on such a journey for several days, so was decided to wait.
The next afternoon Bennett came in plainly
"Harkins tells me he hears a man is going to
"Hated, and jump my claim. Says he's going to start out to morrow morning with a load of lninber
"But yon filed on the claim at the land-office,
What can he do?" asked his wife.
"Harkins says possession is
Harkins says possession is nine and a hal
points of the law in this country. I don't want points of the law in this country. I don't wan'
any trouble with him ont there, and I haven't time nor mouey to contest the matter here before the land-office. Harkins says he's unfavorably known here, and a month ago tried to jump a claim this side of mine. Harkins pointed him out to me-he's got a team of gray horses and a
wagon withont a cover. There's only one thing to do-get ont there and take possession first.
"Go on, then," returned Mrs. Bennett. "I'll
stay with bahy, and come out when he's better. Take Helen with you; she can do the cooking as well as I. And Tom-take him along. too; h cau't stand it to be shat np here any longer.
"All right, I'll do it," said Bennett, risin
"All right, I'll do it," said Bennett, rising ellergetically. "We'll start this evening as soon's
it's dark, so they won't see us. It's a three-days' drive at least ordinarily, hut if we cau get ont ten miles to-night I believe we can ruake it by day

## The mawnurierl out, and Helen saicl

"Oh, I wish I were a hoy."
"Why?", asked ber mother, in a curions but

## "I could help father so much more"

"But your can help me as it i
"Oh, Tom conld help yon. He ought to be the he so much help out in this country
The larger stars were peeping f
The larger stars were peeping forth as Bennett
and the two children slipped out of town in the and the two children slipped out of town in the
covered wagon. Helen sat in the other end of the seat from her father, ansions and watchful.
and Tom between them ready to burst with ex and Tom between them ready to burst with ex
ritement. So far as they could see their stan
attracted no attention. The night was not dark, attracted no attention. The night was not dark,
and they made very good progress along the dim prairie road. It was almost midnight when the
"There's Buffalo lake off to the left, and it'll be a good place to caup. We stopped there for noon
when we went out. There's some yuite dense wools around the west side, and good grass for He turned down, horses picketed. The seat was moved, and fairly comfortable bed made for the girl. Tou "I'll just slee down on a pilte of hedding.
"Ill just lie down with a blanket under the
wagon," said Bemnett. "iso I'll be sure to wake
up. I want to be started as soon as it's a little
daylight;" up. I walu
It Neemed to Helen that she had not been asleep father's hand on her shonlder. There was a ruddy glow in the eastern sky,
"Helen, the borses are gone," he said, in a whisper. "I'm going to look for them." "They can't have gone far," an
on't you remember that tine "The ropes are cut now. They may have bee stolen, but it doesn't seeu likely. I think that fellow followed us, and has driven them away see if $I$ can get any track of them.'

## Helen scrambled out, gathered son

 from the lake shore, and started a five dry woo an hour she had some coffee and hacon ready and soon her father was back, but with no intelligence of the missing horses. He ate hurriedly, and again started on the search. It was now almost sunrise, and Helen woke np Tom, and together they waited. It was two hours hefore their father returned this time."I guess it's hopeless to look for them," he said. I've heen throngh the woods twice more, and in all directions. That man has simply led them off, and there's no telling how far he'll take them before he turns them loose. I'm afraid this settles our getting that claim, hut Y m not going to another team. It's twelve or fifteen miles, hut I can be back. here by the middle of the atternoon Yon just stay here with Tom, and take care of the wagon," and he walked away across the prairie.
It was still early, and for an hour or more Helen and Tom amused themselves by wandering along passed that the lake, though scarcely a moment over the prairie in the hope that they might rest "In the horses.
"I don't believe they've been turned loose," she They've got so they think the back hefore this. They've got so they think the ragon is home, and own stable. I believe they're tied np over in the oods.
"Father went all through the woods," retnrned om.
"Well, he might have missed them. It was dark the first time, anyhow. Besides," she added, thing. I'm going over to look myself," and she trudged off.
Tons was half asleep in the shade of the wagon when he was startled by hoof-beats, and opened his eyes to face Helen galloping up from the lake on
other
"TT
"There!" she cried, as she sprang off. "What did I tell you? I found them over there in the thickest of the brush tied to a tree. Hurry up and
harness them while I pack np things." "What are you going to things, "Wha

We're going on!"
On to the claim?"
Of course. And maybe we can get there first after all. I'll leave a note here somehow for
father, and when he comes he'll follow along on horseback, and probably catch up with us."

But s'pose he doesn't?'
Then we'll go ou alone.
But you've never been there. Yon can't find " place."
"I know it's the southeast quarter of Section ${ }^{15}$, Township 116, Range 62, and somebody'll show it to us. Besides, there's five buffalo sknlls piled np on the northeast comer where our honse is oing to be. Hurrs np while. I write the letter. nclosed in an empty tomato-can reared on a inclos
stick
Out on the road they headed west, and urged lacked two honrs of noon. There were other white-topped wagons coming from the direction of Kampeska, hut gradually they were left behind. After the first excitement of the start was passed, and she had time to think over the situation, it
most be confessed that Helen felt somewhat less must be confessed that Helen felt somewhat less brave. What she was undertaking hegan to ap-
pear more formidahle. The possibility of her pear more formidahle. The possibility of her
father not getting the note or in any way failing to overtake theu did not make the outlook pleasant. The task of finding the place hegan to seem less easy, and the 1 rospect of camping alone that temptation to turn back. She hatd inherited a good stock of self-relimice, and this had heen cultivated in the school of adversity upon the nimpoductive farm which they had quitted and by the long overland joume
At noontiue they stopped at a half-completed ahout, but there was a good well was 110 one which tbey made themselves free. Helen looked back lougingly for the appearance of her father before starting on, but she was not rewarded.
Soon after starting she sighted in wagon ahead going in the same direction. It had no cover, and was probably striving to reaeh the same claim that she was save her some alarm. She kuew she must not be seen closels- hy him. fearing that the wayon and horses would be recoguized and that further trouble would result. She came ful to keep that distance between.
At sunset the children's father had not come

The wagon abead was seen to stop, apparently
with the intention of going into camp. The man with the intention of yoing into camp. The man
alighted, and as he unhitched his horses Helen alighted. and as he unhitched his horses Helen saw that they were light-colored, and probahly
gray. This made her helieve more firmly that gray. This uade her helieve more firmly that this
was the man she wished to avoid. She determiued was the man she wished to avoid. She determiued
to go around, and turned across the prairie aud drove directly to the north for a half mile. She trees, and she again went west, forded a shallow streau, and just as it was becoming dark once
more struck into the trail and bore straight onmore struck into the trail and bore straight on-
ward. The possibility that she was ahead of the man renewed her conrage, and she determined to go on as long as possible regardless of a camping-
place. It was almost as late as it had been the place. It was almost as late as it had- been the
night before when she finally turned out on the night before when she finally turned out on the
open prairie and stopped. The horses she tied sccurely to the wagon for the night, determined not to trust again to picket-ropes
and she was np with the first tole troubled Before sumrise they were again pressing onward There was still no sight of her father; nor had There was still no sight of her father; nor had
there been at noon when they stopped where the trail skirted a good-sized lake. A man who went by on horseback while they were there told her
that they were in the northern part of Township that they were in the northern part of Township
115, Range 60 . There was a good sectional "clain seekers'" map in the wagon, and she readily saw
from this that their destination lay about fifteeu from this that their destination lay about fifteeu
miles away, and somewhat uorth of west. The miles away, and somewhat uorth of west. The
a man building a house who would give her further directions.
The stranger's information proved correct, and somewhat curions inquiries she replied that he father was coming, and explained that fear o "claim-jumpers" had cansed her to hurry on. At the mention of this hated class the man was more than ever at her service. He trent a mile west
with her; where he put her on the section line, and told her that she should follow it three miles due north, which would bring her to the exact corne The wan's find.
The man's directions had been so explicit that she easily fonnd the way. There was no road or even a track of auy former wagon, hnt Helen kept
on the section line, which was not difficult, as she could correct her bearings at every corner by the could correct her bearings at every corner by the
government survey stakes. In less than an hour she sighted a stake ahead and somewhat to the right. which she gleefully announced to Tom "must be it." She sprang out lighounced and ran to it, and after examining it, called:
The boy complied, and she stood in a tragie attitude with one foot on the stake and her arm held out at its full length to the west.
"There, Tom: Whoa!" she cried,
"There, Tom: Whoa!" she cried, as the rear of the wagon passed the imaginary line she was
marking out. "Stop! You're on our farm. This is the southeast corner. Half a mile straigh north is the northeast coruer, and there's wher the buffalo skulls are, and where our house is
going to be. It's home, Tom!'’ and she came running to the wagou, her face aglow with excitement and pleasure.
"Yes, but s'pose that man is there," said the "Oh, don't talk that way. He's not. And if he is we're here, too, and it's onl' farm, and our she picked up a lump from the wheel-track and examined it critically
"It does look better than any we've seen," an swered the boy, beginning to cateh his sister' ardor.
"Oh," ever so much," she went on, climbing
nimbly into the wagon. "Crops won't fail here nimbly into the wagon. "Crops won't fail here
like they did back where we nsed to live. How like they did back where we nsed to live. How ns.", She started the horses, adding, "Now keep
your eyes open for those skulls when we come your eyes open for those s
aronud that knoll, Thomas!"
In four or five minutes Tom shouted. "Ther they are!" though Helen had already seen them, but had not spoken becanse her attention was riveted by the sight of another wagon coning
from the east, and headed directly for the same place. It was without a cover, and was much the nearer to the white pile.
Tom saw the other wagon, too. "Do you s'pose it's the man?" he said. almost in a whisper, though the wagon was nearly a half mile away.
"I don't know." answered Helen. slowly, and with a little shiver. She stopped the horses and watehed the other wagon. It drove straight
the skulls, turned to the north, aud stopped. it came about it was easy to see that the horses ere gray.
"Yes, it's the man." she said, and Tom noticed der what we can do?",
She scanned the prairie in all directions for her father or other help, hut there was
"Yon said you would tell him that this place is onrs," answered Tou.
"Yes, and it is!" she cried, vehemently. "Ours hefore he ever saw it. Besides, yon and I were
on it first. One corner is as good as auother." She pansed, and sat clasping her knees in he hands, the reins lying idly on the dash-board. "But what good will it do to tell bius so? He
knows it now as well as we do: If we went down knows it now as well as we do. If we wellt down drive off with it. or smash up our thiugs. or burn the wagon, or-I don't know what! If father would only come! Why didn't I ask that man
come with us! I wish somebody would come'
She sat rocking hackward and forward, as down-
"That's he doing, anyhow?"' said Tom, sud-
denly, standing up and peering ahead.

Helen also started up and looked. The man had walked a little way to the northeast, and seemed "That must be when on the ground for something "Perhaps the stake is gone, and he's not sure that .'righe
"Hope he'll think he's wrong, and go way,"
ot much danger of that," answered the girl The man was
The man was still walking about in small cir west, stopping and looking around once in awhile. He had not seemed to pay any attention to the other wagon from the first, evidently not recognizing it. Perhaps he did not even notice it since
it stood half in the shadow of the knoll and among some tall grass, and the white top had long be fore become a dingy dirt-color.
"Wonder what that means?" said Tom.
Helen made no reply, but stood watching him,
carcely breathing. He went on till scarcely breathing. He went on till he disap-
peared over a little ridge. As he passed out of peared over a little ridge. As he passed out of
sight the girl gathered up the reins and seized sight the girl gathered up the reins and seized
the whip, giving it a loud crack that started the horses at a good pace.
"He's on our farm, and he's got to get off!" she ning in her mind of a possilhe way out of the difficulty. "Are you going to
asked Tom, eagerly.
"I don't know"s I've hardly got any right to touch his team, even if it is on our place," an-
swered Helen, urging her own horses ou. "But I swered Helen, urging her own horses ou. "But I
guess we can drive down there as fast as we She cracked the whip again, and by this time could gorses were trotting about as fast as they
were rapidly approaching the could go. They were rapidly approaching the
other wagon. There was some tinware and lumer and tools and various other commodities in he sennett wagon, and it was making a clattersoped downward all the way, so it was not difficult for the horses to get up a good speed even if the load was rather heavy. The next moment they broke into a gallop, and the noise increased proportionately.
"When I say yell, Tom, you just do it!" cried Helen in his ear. Aud the next moment she did
say it, and Tom certainly did yell with the full say it, and Tom certainly did yell with the full
strength of a young and vigorous pair of lungs. strength of a young and vigorous pair of lungs.
They were buta few rods behind the other wagon, Chey were but a few rods behind the other wagon,
and the noise was now something prodigious, and the noise was now something prodigious. pricking up their ears aud moving abont trying to wiscoser what was coming. Tom's terrific whoop then the other, then they both got off, first at a gallop, which as quiekly as possible turned into northwest, in a few seconds being off the Bennet claim, and tearing on aeross the prairie.
-"Thoa!" called Helen to her team, bracing her reet aud tugging at the reins.
Tom turned in and helped her, but even with his assistance they, too, were well off their claim before they got the excited animals down to a reasonable gait. Helen did not stop, but swung around to return. As she did so the man apteam rumning away, the wagon swaying and jolting and making as much noise as the other had done. He started at full speed after the team Helen drove baek to the heap of skulls and stopped "There," she said, almost too excited to make
herself intelligible, "see how he likes that! Here we are home, and we"ll unload!"
She bonnded out, but found that strength $t$ carry ont her plan was lacking. She sat down on one of the big white skulls, and scarcely knew
whether she was going to laugh or cry. But she Whether she was going to laugh or cry. But she had strength enough remaining to direct Tom' efforts, and he hegan vigoronsly to unload the husy at it, and Helen was so weak after the ex citement, that neither saw their father until he dashed fairly around the wagon on horsebaek Then if Helen did not actually faint she certainly came very near to it. But it was only for the moment, and then she told the whole story to he father, who listened more intently, perhaps, than he had ever done to anything before. Mr. Bell message in the can at first on account of the stic having fallen down. and so had lost much time in searching
started on.
And after supper, as they sat by a hlazing camp fire beside the five skulls, Helen, ably assisted hy Tom, had to tell the whole story over again. And haby, of course, she, also, had to hear it, and more haby, of course
A. for the 1uan. it is not known that he eve came back-certainly
anything more of him.

## QUEEN VICTORIA'S PERQUISITES

Queen Victoria has a number of queer perqui-
sites. One is her right to every whale or sturgeon captured on the coast of the United Kingrlom


JOYCE DALLAS
अITST have money, hut where shall it
come from? If I argue the case twice twenty times it will he all the same How bitter to he dependent on r
atives. I can no longer stand it! must do something to earn a liveli-
hood: I must leare this house!" Such was the desperate conclusion reached
Every day life had grown more tiresome to the family for fire years.
Her mother had left her a penniless orphan to the care of her only hrother at her death. Joyce cerned, she was welcome, for he had spared no amount of care and love for his hright-eyed little thing with his owndaughters. "Uncle Geoffrey;" whose name was almost the first she had learued
to lisp, had heen deroted to her mother, and true to his nohle character had cheered and comforted That mother had heen the only sister of Geoffrey of her hrother. It was while visitiug ber wishes school friend, Beatrice Glenn, that she had met Guy Dallas. a distant relative of Beatrice, aud entertained higher hopes for his sister Maud. The first unkind words het ween hrother and sister were spoken, and they separater, Maud going ward, however. when Guy Dallas succumhed to that dread disease, consumption, leaving his wife he rescue and there was a reconciliation. When Joyce was thirteen years of age her mother died,
and Uncle Geoffrey took the unhappry little orphan He was rich. this Uncle Geoffrey, and while he He was rich. this Uncle Geofrey, and while he
was kindness itself his wife was a proud, arrogant woinan of the world, and his daughters, Blanche Jorce had seen hut little of her Aunt Edith and her cousins before coming to live with them, hut
she rememhered that they were always haughty and overhearing in their manner toward her mother. and she had rather expected the chilly There were three boys, Frank, Charles and haby Harry, but they were all in lore with "Cousin
Joyce" from the first. Those were hard dars for poor little Joyce. It did not take Mrs. Carter long to discover her
tried thiuk her hapy. husband's fondness for his sister's child, nor was
she ignorant of the child's attractions. She could hot help seeing the difference hetween. Joyce and jealousy. hare equally in everything with his girls, and this was a thoru in the flesh of his selfish wife.
ine deliherately set berself the task of sowiug
lissension hy misrepresentins the child to her uncle.
Joyce made rapid progress under the girls'
futor:, and easily eclipsed her cousins in every The Carter home was elegant, and the faunily climpses of the outside world, although she was
tudiously kept in the baekground as much as ossible. She was scarcely ever allowed to take
any part in their enjoyuent. They always hatl
something to occupy her on these occasions. anything with him but Joyce, and thenl "she does withstanding their unkinduess she grew prettier
nd more attractive and bore accomplished.
While they frittered away their time in idle ociety chatter she was cultivating her mind.
(nt the few occasions she was allowed to take
part in the gaities she won all hearts and became
o popular with the young people who visited the
onse that as - he grew up che cane to he cordially

Their treatment grew, to her sensitive nature,
unhearahle. making her feel keenly her dependence. Tet she was the little housekeeper, and a
comfort to the hoys, who took her part against
mother and sisters. Bahy Harry toddled after her the day long. Her position hecame so intol-
erahle hy the time she was eighteeu years of a that she made up her mund to leave. She was hattle of life single-handed, and she would make use of her talents.
She knew she would incur Uncle Geoffrey's disHow could she tell him his wife and daughter had driven her to take the step!
A hout the time Joyce reached this decision there was a grand garden-party at the Mallerot
mansion in the neighhorhood; a rery swell affair, to which all the young people of the Carters, acquaintance were invited, as well as some from the city. The Mallerot residence was one of the
most heautiful country seats on the Hudsou, most heautiful country seats on the Hudsou. a young man whom she had met during her first

He had heen rery agreeahle and attentive to er during that season, and Blanche was positive Harold Kingston ras handsome, intellectual and rich, and was one of the social lions of the hour. No wonder, then, that Blanche Carter felt
a thrill of triumph when he sought her out at the a thrill of triumph when he sought her out at the Mallerot garden-party and offered lus arm for a
The two one thers
The two daughters of the Mallerot house, pretty, amiahle girls, were buss arrauging sets. time. Joyce for once was included in the merry party. It would never hare occurred to Blanche to present Mr. Kingston to Joyce, hut Marian allerot, with whom the orphan cousin had heen
a favorite from their first meeting, introduced the ion to her friend.
Harold was struck with her heauty of face and
manner, and did not pretend to conceal his admiration
Blanche turned hot with rage and jealousy as she watched the meeting.
NEW 20TH CENTURY
DE LAVAL
CREAII SEPARATORS


 Deuts alseparators the past year, the latest improve.
meats nake them still better until to-day the new
machines are simply unaprochate hy anything
else in the shape of a creap separator.
 THE DE LAVAL SEPARATOR CO.

| Randolph \& Canal Ets., <br> Clincago. | 74 Cortlandt Street, EIH TORE |
| :---: | :---: |

YOUR BOYHOOD DAYS


 sell hred to remain with the crowd"" sufficiently
"Ludeed, Blanche," said Marian, quickly, "she will not stay at home if I can induce her to come
to my house. She is the sweetest sirl I hare ever known, and I wish I could see inore of her and
"Oh, she does not improve on acquaintance your mind. She is awfully disrespectful to to hear this, hut he did; his quich ear caught the
He had admired Blanche Carter; the winter he met her in New York she appeared to him a very
attractive girl. He was now thoroughly disenchanted.
Joyce Dallas' fair, lorely face had at first sight
imprinted, itself on his heart as no other face had ever done, and he felt that he could, in those fey words from Blanche, read th= girl's miserahle life
in their home.
The search for Joyce revealed her reading to made, sitting heside the old lady's couch, fo grandma had been partially au iuvalid for year
If Harold was pleased before he was douhly so
nuw; the sensation he experienced as he looked
into the girl's hright face was a new one to him.
her protector.
The party hroke up with three people feeling anlything hut happy. Blanche had given . l yce a
lartiug glance that gave her to understand what
supect on her return. She hardly waited


| his wife had led him to think that it was all settled hetween Fingst on and Blanche. <br> In his surprise he did the worst thing possihlehe took the letter to his wife to read, asking what she meant hy telling him Blanche was the chosen one. <br> The lady's anger was something dreadful to behold. <br> Mr. Carter, as well as Joyce. felt the power of her tongue. "This is our reward for our kindness to your penniless niece!" she cried. "If we had made ber feel her position when she came here she would not have hecome the presumptuous thing she is. Гou are to hlame for it all. I wish I had never let you hring her here. Blanche has lost one of the greatest catches in New Tork. The idea of such a man asking the privilege of winniug this 'pauper' for his wife. And she has met him only once. She shall not stay in this house." <br> She did not know Joyce had made up her mind to leare hefore she met Mr. Kingston, and would uot hare been there for this event in her life had she possessed money sufficient to enahle her to trarel. She had answered an adrertisement of a lady living in Albany, and had heen practically engaged to take the position of companion to the adrertiser, whose name ras Mrs. Keunedy. How to get to Albany was the problem. She had a handsome ring, an heirloom from the Carter family, which her mother had managed, in spite of her poverty, to retain. She now made up her mind to pawn this precious keepsake, hitter as the thought was to her, that she might in that way ohtain money to reach Alhany. She knew if she asked Uncle Geoffres for money he would want to know what it was for, and she would have to tell him everything. <br> So she waited until her preparations for depar- |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

his wife had led him to think that it

$$
\begin{aligned}
& \text { "IIY DE.AR. DEAR TrCLE GEOFFREY:-It is } \\
& \text { very hard for me to tell you what I feel I must. } \\
& \text { I am going away; my life has heen made miser }
\end{aligned}
$$ I am going away: my life has heen made miser-

able, and I have heen most unjustly aceused. It
is hard to leave you and the hoys, hut I must, and rou will know why "I hare accepted a position with a lady in
Alhany, a Irs. Judson Kennedy, who, I hope, will give me a chance to earn a respectahle liveli-
hood. You will find this on your return fiom the city, with a loving farewell. $I$ will leare Elme
wood on the five-oclock train. Your loving "P. S.I forgot to say Mrs. Kennedy expects
to go ahroad in Septemher and I am to accompany to go ahroad in September and Iam to accompany
her. Unce Geoffrey. please come to see me he-
fore that time, that I may know that you are not fore that time, that I may know that you are not
angry with me. And. dcar uncle, wont you think
kindly of Joyce when she is orer the sea?

Joyce had not seen her aunt or Blanche since their outburst over Harold Kingston's letter they knew nothing of her arrangements to away, and she had thought it prudent Mrs Knighten them. In her correspondence with Mrs ence, for old Grandma Mallerot had known the Kennedys intimately in her younger life, and Joyce had gone to the old ladj for adrice in the matter, pledging her to secrecy.
Now everything was settled and she was going. She had arranged with Dick, the colored boy, to snuggle her luggage to the depot for the eveniug ensconced in the shadowy corner of a car, speeding away toward Alhany, where she arrived Mrs. Kenceliss Dallas," the at the depot, said, as he stepped up to her. "if you be that young lady."
Mrs. Kennedy had not felt well enough to go out that morning, but was seated in her room, rience with a companion. She had lost her daughter turo years before, and since that time her life had heen so sad and lonely that she finally had determined to e
travel with her.
The name of Dallas happened to be a familiar one to Mrs. Kennedy and she marveled at what he deemed a strange coincidence.
 them, and poor. I never cared much for any of his handsome face and cherry dispositiou. How long ago it seems since that summer when Maud
Carter visited me, in our old home. And she and Guy fell in love. finally got married against he I have never heard of alaud after ponr Guy died In the midst of her reveric the door was throwu
open and गliss Dallas was anuounced. When she opell and Jliss Dallas was anuounced. When she mirs. Kennedy proceeded to welcome the girl.
$\qquad$ startled lue strangely. You are the inage of a
$\qquad$ yo right to your room. Traveling all night is Joyce was indeed glad to reach her roou ar strange to her. She thonght she would like 1 lr
Iimucdy, hut this was such a great. quiet house presence of Aunt Edith and Blanchr. Kíudly di ra, she threw her who han broght her a mop





THROW AWAY YOUR HAT PINS a The Ideal Hat Fastener

$\qquad$
PAGE
THE SUCCESS

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
| \$3 a Day Sure |  |  |
|  |  |  |
| PAYS |  |  |
|  |  |  |
|  |  |  | eeliug well so I cume up to look after you mysel. You have had such a nice sleep and pleasant

dreams, I am sure. You will have plenty of time to dress for dinner; we dine at five. When you are ready come at once to my room, as I wish sou to mcet my husband and nephew. Wile she was dressing Joyce allowed her thoughts to revert to Harold Kingston, and she caught herself wondering if he would try to find She was so busy with her thoughts the dinnerbell rang just as she finished dressing. She hastened down the hall, to find her employer and two Kennedy was one of those geuial, cordial men who establlshed friendly relations with people at the first meeting. He had keenly felt the loss of their only daughter, and his loving heart went out to Joyce at once. As he took her hand he
"My dear Miss Dallas, I hope you will be happy here with us old folks; it is very quiet, but we
will try to enliven it sometimes with voung will try to enliven it sometimes with young

Then the nephew, Glenn Kennedy, was presented, and sill repaired to the dining-room. Joyce already felt she would be happy with
these people. They weople.
They were rery chatty during dinner, Mrs. Kennedy asking her about her acquaintance with the Mallerots, who had becn intimate friends of had lived with her uncle, ever since the death of her mother, in his magnificent home, "Elmwood," on the Hudson, adjoining the Mallerots, with whon they were all intimate.
Of course, Joyce refrained from saying anything concerning her unhappy life there. She spoke in most affectionate terms of her uncle; and then Mrs. Kennedy asked:
"What is the name of your uncle's family?'
"Carter," replied the girl.
"Carter! Why that is a very familiar name me! I had a school friend by that name." But Joyce had turned to hear something Glenn subjects. subjects.
Dinner o
ing-room, where music was proposed. Tpon the invitation of Mrs. Kennedy Joyce seated Lerself at the piano and astonished her new friends by her skill as a musician.
She played with a rare, soft and expressive touch, and as she passed from one composition to another her listeners became so entranced that they were oblivious of the flight of time. Then there were songs and duets by Joyce and Glenn, and bedtime came all too soon for Mrs. Kennedy, happiest she had spent since her daughter's leath.
After retiring to her room Joyce wrote two Nallerot. Then she sought her couch, and was soon reveling in happy dreams, in which, it must be confessed, Harold Kingston played the most importaut part.
Great was Mr. Carter's surprise when he returned from the city the day after Joyce's
departure to find her letter bidding him goodl-by. departure to find her letter bidding him good-by. He called the household
His wife and daughters were as much surprised as he, for it had not occurred to them that Joyce rould have the courage to leave the only home
she knew.
Mr. Carter seldom got ruffed, and in all their married life Mrs. Carter had ouly on one or two she had heen wise enough to keep quiet; but never had she seen anything like the terrible rage he was uow in. He walked the floor for hours. child, out in the world to earn her living, and that, too, through the unkiudness of his family. His wife and daughters had conspired to bring it about. He could see it all now.
Who were these people she had gone to? And
what would be the result of her being the what would be the result of her being thus thrown on the world? He would go after her. She
should come back, and he would see that she was properly treated. Later he remembered Harold Kingston's manly letter, and resolved that the
young man, whom he knew to be the sonl of honor, should have an immediate and favorable reply. The thought that people who knew him make her own living stung him to uladness. She belonged to him. Maud with dying lips had given her to him, and he had. with that cold hand
in his, promised she should never know a care. Blauche and Edna were terrified at their usually Huet, gentle father's outburst.
Blanche had not heard
Blanche had not heard a word from Harold Mjoyed his visit to "Elewood" how much he had Kingston in the meantime had eagerly watched appointed. He had just about made up his mincl to write again, when, walking down Broadway, he
ILulson.
From Mallerot he learned that Joyce had gone to Albany as companion to a Mrs. Kemedy "Kennedy!" mused Harold. "I wonder if that Before Uncte Geoffres I will find out. retermination to go after Joyce he suddenly fell sreat shock, for such it really soms to him, and this trated him with a nervons affection hordering on paralysis
His ph
His physician, anxious to arrest this, ordered sent to Iayce. The girl was greatly shocked and grieved, and started as soon as possible for Eluu-
wood. Mrs. Kemnedy accompanied her, giving as days with the Mallerots.
Mr. Carter rallied and inproved sufficiently to see Mrs. Kennedy before they returned. In the
course of their conversation he learned, to his great surprise, that she was not only Beatrice Glenn, his sister's friend, but was Harold Kings-
ton's aunt. When Mrs. Kennedy found Joyce ton's aunt. When Mrs. Kennedy found Joyce was the daughter of her old-time
went into raptures and exclaimed:
went into raptures and exclaimed
"She shall be my danghter now; aud șhe shall
have my dear, dead child's fortune.
When Harold arrived in Albany and found his he would also go to Elmwood. The surprise to all can well be imagined when he was announced, and his intention now was to know his fate from the lips of the girl he loved.
It need only be added that there was a grand wedding in the early spring, and a trip across the ocean. Joyce Dallas did not go to Europe a companion to Mrs. Kennedy, but she went as the fair and lovely bride of Harold Kingston.

## NEEDLESS FEAR OF LIGHTNING

## In the Angust "Century" Alexander McCabe

 gives encouragement and advice to people whohave an cxcessive fear of being struck by lightning have an excessive fear of being struck by lightning
-or thunder, as some of them think. The keen -or thunder, as some of them think. The keen during a thunder-storm is of a dual nature. The sense of lmpending danger alarms and territies physical and real, brougbt about by some as yet unknown relation between the nervous system and conditions of air-pressure, humidity and purexhaustion sympathy rather than from those who are strong, to alarm and fright, however, is unnccessary. It is largely the work of the imagination. To a nervous nature there is something appalling in the wicked, spiteful gleam of the lightning and the crash and tumult of thunder. But such a oue should remember that the flash is almost alway damage than the low notes of a church organ Counting all the deaths from all the storms during a year, we find that the chance of being killed by lightning is less than one in one hundred thousand. The risk in the city may be said to be five times less than in the country:. Dwellers in city owing to the gratted by peals of thunder, bai ground connections there is very little danger In the country, if buildings are adequately protected and the momentum of the flash provided for, the occupants may feel secure. A good conductor, well-grounded, is necessary in all isolated and exposed buildings. Barns, especially when
Iined with green crops, should have good lightning conductors. The question is often asked, degree of protection The auswer is that the of the tree and its distance from a watercourse An oak is more liable to lightning-stroke than a beech. The character of the wood, the area of the leafage, the extent and depth of the root will determine the liability to stroke. Another question which is often asked is whether there is dan ger aboard a large steamship during a thunder storm. On the contrary, there are fewer safe places. Sufficient metal with proper superficial area is interposed in the path of the lightning, and its electrical energy converted into harmles chicfly because the vistims ignorantly place themselves in the line of greatest strain, and thu form part of the path of discharge. For thi flag-poles or masts, in doorways, on porches, close to fireplaces or near barns. Those who are not exposed in any of these ways may feel
safe. It should be remembered, in the event o accident, that lightning does not always kill. It more often results in suspended animation than in somatic death. Therefore, in case of accident, send for a physician without delay.

## GLADSTONE'S FIRST REMEMBRANCE

 Gladstone, in his eighty-first year, recalled, as If it hat happened befell when he washteen months Prowling about the nursery on all fours, there suddenly flashed upon him consciousness of the existence of his nurse as she towered above him He rememhered her voice and the very pattern of the frock she wore. This was his earliest recol-A LOW WAGON AT A LOW PRICE In order to iutroduce their Low Mretal Wheel
with Wide Tires, the Empire Manufacturing Co
Quincy er's Handy Wagentaced upon the market a Farm
fitted with 24 and 20 inch wheels witheles high,
tinch tire


This wagon is made of best material througl
out, and really costs but a trifle more than a se of new whels and fully yuaranteed for one year
Catalogue yiving a full rescription will be uniled
年
 wheels at low prices made any size and width o
tire to fit ally axle.

## A College And Seminary For Women

THE WESTERN OXFORD, OHIO

 $=2=2=2$



## SILK REMNANTS FOR CRAZY WORK

$\qquad$


Pronounced by lamp experts the best lamp ever made.

## This Lamp, and Farm and Fireside 0ne Year, $\$ 2.75$

Express prepaid to any point in the United States east of the Mississippi
iner. If those beyond the river desiring the lamp will write us we will river. If those beyond the river desiring the la
inform them of the terms on which it will be sent.
given free as a premium for 16 Yearly SUBSCRIBERS TO THE FARM AND FIRESIDE
When selected as a premium for a club of sixteen the lamp will be sent by express, charges to be paid by the receiver.
Order bs Prentum Address FARM AND FIRESIDE, Springfield, Ohio

##  <br> THE DUTIES OF SCHOOL DAYS

8
Ix the September sights and sounds none are more pleasing than those of the children an swering the call of the school-
bell. Again they are trooping past, through rillage and city streets and shady country lanes and roads. The sound of their happy faces seem a part of September
at lome the opening of school brings unnatural quiet, and mother often feels it a relief for so many hours from the active children; but does it not also bring its extra duties and problems to be studied with care? The responsibility of haring good schools does not rest alone with the trustees and the does not rest alone with the trustees and the
teachers. A great deal depends on the parteachers. A great deal depends on the par-
ent. After good, competent teachers hare ent. After good, competent teachers hare
been appointed, and the school-house and grounds made as inviting as possible, the work of the parent is only just begun. Visit recitations encourage both teacher and pupil. Don't enconrage the children in fault-finding, but go and see for rourself. Inrite the teacher to your home, that you may make his acquaintance, and he will be better able to ments of the children if he knows something of the parents and the home life.
Encourage the children in their studies at home. It will do yon good to freshen up your own half-forgotten knowledge of hisencourage the children to see you interesterl encourage the children to
in what they are learning.
Be sure that the children have suitable clothing for school. Last season's best suit is often made to do duty for this season's school-dress, although it is outgrown, too short in the slirt and too tight in waist and sleeves. I saw only the other day a little
boy who had so outgrown the little velvet pants that they strained at the waist buttons and were so tight he could hardly sit down in them. A child whose clothes do not fit him suffers bodily discomfort, and is also often Aortifed by the remarks of his schoolmates. the first day she had worn a new dress. Her mother, with the child's rapid growth in mind, had made the dress large in the waist and long in the skirt. When ques-
tioned, she sobbed, "Yannie said she guessed tioned, she sobbed, "Yannie said she guessed I wasn't at home when yon fitted my dress."
. The mental effects of clothing are farreaching. There are few among grown-up people who can appear their best if they
know they are not looking their best. It know they are not looking their best. It
helps our self-respect to know we are not looking odd or dowdyish in any way. Don't let the self-respect of your little child be hurt in this way. Children are often supersensitive to ridicule, and besides the suffering they endure they are sometimes made bashful, a wkward or sullen by being forced to different from their schoolmates.
Another thing of importance of school life is the school lunch. Erery successful farmor and stock-grower knows that the food given to young'animals has much to do with
building up healthy, strong constitutions for fuilding up healthy, strong constitutions for
finefulness. Is not this a matter of equal importance with our children? The child that has slept in a well-rentilated room, eaten a simple, nourishing breakfast, and
yet comes home witl his luncheon in his basket, needs looking after. Perhaps he is tired of the same thing every day. Try
giving a surprise. Instead of the sandwich with a slice of cold meat for filling try a nut sandwich or fish with a little mayonnaise All children like sweets; sometimes give a brown-sugar sandwich, or one witlo a filling of chopped raisins, dates or figs. Baked yolks of hard-boiled eggs or scrambled eggs any of these make appetizing sandwiches
Fruit of some kind should always liave a place in the school luncli, and whatever goes in the box or basket let it be just as dain and inviting in appearance as possible Besides the providing of snitable clothing,
the putting up of lunches, the straightening the putting up of lunches, the straightening of tangled locks and washing of little hands and faces, school-days bring other duties and
problems. The school life and the home problems. The school life and the home
life should be more closely bound together There are often contaminating influcnces in
means to guard onr children. In the first place, do not send the children to school too young, before they hare well-formed ideas of right and wrong. The child who has bee in close companionship with his mother intil he is eight or nine years old, who ha formed the habit of coming to her with all his thonghts and plans, with the certainty of an appreciatire, sympathetic listener, is better prepared to resist evil and more ap to choose his frieuds from the best children with whom he is thrown. If you keep you child's confidence, if you show your interest in his school life, its pleasures and its trials, in his school friends and associates, instea of growing away from you the bond of sympathy will be strengthened and your ability materially increased.

## SAVORY SALADS

The proof of the pudding is said to be in the eating, but the proof of the salad is at least half in its appearance. Nothing is more depressing than a withered lettuce leaf. and few things more mappetizing When you are going to hare salad with ettuce-leares the best way is to choose the lettuce yourself. See that the heads are round and firm, the leares perfect on th edges and of that pale-green color which i so tempting. A good way to treat the heads

till you are ready to use them is to sprinkl them well with cold water, put them root up in a colander or siere, and let them sta in a room that is cold, but not freezing When you are ready for your salad, wasl each leaf separately in cold water, and dry with a cloth, taking care not to break its steam or spine. These leares may be used as cups to loold the mayonnaise, or lobster or chicken, or whaterer you intend to lav selves for a salad with French dressing. Just now it might be well to say that French dressing, if not mixed on the table as so many hostesses prefer. should be kept in a cool place and not poured over the lettuce till you are ready to serve it. Oil and rinegar will soak into lettnce and make it soggy half hour, or even less in a warm room
Mayonaise.-A good receipt is the yolk
f one egg, one pint of salat-oil, one half teaspoonful of salt, two teaspoonfuls of lemon-juice and a pinch of cayenne pepper Yon want your egg and oil to be very cold oefore you begin. If the weather is warn stand your plate in a pan of clopped ice or on a stone slab, or anything cold.
fork is the best implement for beating the dressing. Beat the pepper and salt int he egg, then add the oil, trop by drop, bea dressing is to add the oil rery slowly at no (you can scarcely do it too slowly), and then when it is well started the rest of the may be added more rapidly. When the egy and oil begin to thicken add the lemonjuice. Vinegar can be used instead of the lemon if you prefer. The lemon make the dressing a paler yellow and more bland.
If the oil should curdle sometimes a few lrops of ice-water will smooth it out again. This receipt is for abont one cupfil which can be kept for days in the ice-bo. If a large quantity is required, and you are not rery expert, it is best to make it twice, as this amount is as much as you can manage well at one time.
Frexchi Drissing, --The proportions are spoonfuls of oil, one half teaspoonful of salt and one fourth of a teaspoonfinl of pepper Some people prefer to lave one half of the uantity of vinegar tarragon, but this sually pretty sharp for the average palate Blend your ingredients so well as to has neither the tastes of the oil nor rinerat to preparc, the least expensive and ilie lean ornamental. They are useful, lowerer
yon are pressed for varicty potatues can be

A lettuce salad with French dressing is always nice with a fish course or at a simple dish wither. Toss the leares lightly into a a small onion. If yon wish, a cucumber sliced adds much, and an effect rery pretty to the eye is obtained by slicing a couple of radishes very thin and scattering orer the salad after you hare poured the dressing dandelion added to the lettuce gire a pleas ant flavor: water-cress is always nice, or better yet, if yon can get them, are sorrel, tarragon-leares, parsley and chives chopped together and scattered over the lettuce.

A salad to eat with ducks is delicious made of water-cress, with a French dressing and a few slices of sour apple laid on top.
Cccumbers. - These made crisp by being kept in cold water for an hour or two should be peeled and laid side by side in a dish. Slice them, but hold in place as you do it, so as not to destroy their shape, add a wreath of cresses, and pour orer your dressing
String-behis.-- Then string-beans are boiled and cooled, then piled on a dish side strips of, garnished with lettuce-leares or they make an uncommon and delightful dish. All these salads may be further carnished by-olives, stoned or sliced by pinolas (olires stnffed with bits of red pepper), few capers stnfed wishes quartered or sliced or split down so as to look like flowers. Choose the dish you serre your salad in so that its color may harmonize with your leares. For instance, cucumbers always look their prettiest in a dish with red or in yellow, nerer in blue. Exert your fancy to make your salads attrac-
tire, for tbere is no dish in which the tire, for tbere is no dish in which the Mayonaise Salans. - The first and simplest is of celery. To make this perfect as much care should be expended on the celery as was on the lettuce. Choose the small, compact bunches, keep them in cold water for an hour or two, then scrape off all specks from the tender stalks, wash them and cut them into dice. Ponr over them the mayonnaise, garnishing the dish with some stalks cut into snall strips, or lettuce-leares or water-cress.
Tonitocs. - These make a beautiful salad. Remore the skins by plunging them into boilRemore the skins by plunging them into boil-
ing water. Then cut from the top of each tomato a piece about the size of a cent. inside of the inside of the tomato and fill the hole with chopped celery. On the top place one spoonful of mayonnaise, and put lettuce-leares all around the tomatoes. Of course, you want to choose your tomatoes as nearly of a size as possible. This is a rery pretty dish, particnlarly if arranged in a glass bowl.
Potatoes.-A rery hearty salad which is always nice for a pienic or holiday jaunt is made from potatoes. Boil the potatoes in their skins; when they are cold peel them, slice then or cut then into sections like an slange plug but smaller, or dice them. Pour orer the dressing, and ornament with hardboiled eggs dropped or sliced or with the boiled eggs dropped or sliced
Detcil SALAII.-This is perhaps the most ornamental as well as the most hearty and delicious of all regetable salads. It is often found on the tables of the Dutch, and is one of the characteristic dishes of Amsterdam. It should be arranged in a flat dish, with plenty of room for belping, and the main


## "LEFT. OVER" CORN DISHES

Highly season one and one half cnpful of mashed potatoes with salt and pepper add the yolks of two eggs beaten light and three fourths of a chpful of grated col boiled corn, and beat vigoronsly; lightly sir in the whites of the eggs beaten to stiff froth; form into croquettes, roll in beaten egg and bread-crumbs, let stand fif teen minntes, and fry in hot lard. Drain on warm brown paper, and serse at once on a heated dish.

Cons Fhltwers.-Stir one cupful eacl of grated cold boiled corn and milk together, and season witl salt and pepper five the yon an are tablespone a stiff frot and the the stiff froth and one teaspoonful of baking powder. Bake
pancake-griddle.
pancake-griddle
Cons Potato
Coni Potato Balles.- Mix one cupful o grated cold corn with one and one half copfuls of mashed potato; season highly with salt and pepper, add the well-beaten yolk of two eggs, and form the mixture into balls. Butter a baking-pan, brusli the balls with beaten white of egg, set in the pan, make
put a bit of butter in same.
and brown in a quick oren.
tablespominn of chopped par
ley is a deciuled improvement to their faror. Make the pre pared mixtmre into flat cake. you have corn potato calies. Add the stitly beaten whites of cgg to the mixture, and bake heaper up on a buttered pilu,
body of the salad shomd be of celery diced or lettuce-leaves torn up finely by hand,
never cut with steel. Toss sour leares or heap your celery in the center of the disb, and then around this like a wreath arrange little mounds of the following regetables, which hare previonsly been boiled and allowed to cool: Green peas, bcets cut into in strins an incll long, and caulifluwer divided into little branches. Arrange amone them as prettily as you can surays of watercress or sulall lettuce-leaves. Just before naise, having it as stiff as possibla, so that it will not run amons the regetables, You cau will not run anong the regetahles. Ioucan hapamans tips are nico, or tomatoes, amb if
least three, however, and then alternate the mounds. Canned regetables will do if yo an freshen them by pouring orer them col CALLIFL before you boil them slightly
andsome and tasty dish. Chother very fine head. Cut off the stem so that the flower will sit head up on a dish. Boil with a bit of charcoal in the water till rery When cold place in a salad-bowl, surround with lettuce-leares and add rour maronnais among the leares, allowing your snow-whit flower to rise up among the pale green and yellow of leaves and dressing. This is norel salad, and nice.
If for a lunch, a high tea or some such durion during the summer or fall you wish eares, pretty salad, one of torn lettuce with a band of and some loose flowers sprinkled among the lettuce will be found attractire. The nas turtiums impart a piquant taste. Epicure sometimes use violets in the same way, care fully stemming them. It looks nasturtiums.
I. I.

## NOVELTIES IN FANCY-WORK

The interest in doilies still remains, and many ladies are preferring those that are all white. The one with a tatting border is a great farorite and a boon to the woman who annot embroider. Battenberg still holds its own, and to a good needlewoman is more ascinating than embroidery.
A pretty pillow can be made of the coars aress-linens now so much worn by drawing threads in the pillow square and tying them as illustrated, and inserting any desired color of ribbon. A border similar to this should be drawn in the ruffe.
For a corer to a satin pillow a design in arabesques can be outlined with jet beads upon coarse net, as illustrated. String the beads first, and crochet them into a braid, which can be sewed upon the design. Thes wonld be wholly ornamental.
B. K. ave corn potato puft grated cold corn with salt, pepper and a little tugar, alld make a mair , well to fold spread the prepared corn aver one
half, cover with the ather half, and serve at half, coser with the ath.
Cons l)cmplasia.-Cut the grains of sis ears of coll corn clown the middle, ant scrape: season with salt. pepper and a lewe curs very light and aidd to the corn with on and one half cappuls of mills; bcat well. fold in the stitly braten whites of the eggs, and hake. Make tea-hiscuit paste of one pint of flour, rall half an inch thick, athel cut into small romuls: when the ernol has bakerl fifteen mimetes arranere then! oser the tol return to the owell, atud bake fiftern minut os
In the dish in which they ar
Kitheliae 13. Julinsox
where richer salads would be out of place inade to serve a turn; you ought to have at

## HYGIENE AND HEALTH

Wcir the heated term of weeks and and the system grows debilitated unless the greatest precaution is taken that foods of the right order and kinds are chosen, and that cookery of the right manner is taken in hand by one who has art, and executes as well.
Quality and not quantity is the greater demand than when cool and cold weather prevails, for the stomach cannot with kindly heat-producing articles of diet. Fruits, grains and wholesome, flaky, whole-wheat bread are ideal for even the three meals of every day, with regetables fresh from the
soil, and hoiled or baked, but nerer fried. soil, and hoiled or baked, but nerer fried. appearing white cloth, and let it never be hearily laden with dishes and riands. Cool, pretty and tempting and lightly set with cooling drinks and delicate and cooling foods easy of digestion should be the features mainly sought.
But let us glance at the farmer's table, so prominent a part during summer as well as winter. Saturated with grease in butter or fried-meat-gravy form, crisped to a pretty brown (and toothsome we must admit, and smoking hot to the table, we place before our home-folk a dish entirely indigestible. The stomach positively cannot digest the browned, crisped particles. Potatoes thu. prepared go through the alimentary canal in the same hard condition in which they en tered the mouth of it, simply having irritated, though not in the least nourished. The cry against fried potatoes has been great and loud for "lo! these many years," and still they remain a commonly used article of diet because a favorite food. When shall we school ourselves to an acceptance of a diet dishes," or at least to a discarding of prepared foods so prepared as to be definitely dangerous to health and life?
Tables of safe combinations of foods are with almostanyinations that will agree surance that fermentation and indigestion are in nowise likely to follow their use. milk and cereals, and that they-contain the greatest nutritive value, as compared with quantity and cost. The next least expen sive and valuable in nutriment would be the combination of eggs and cereals for a meal,
while another would be grains and regetables or grains and meat. Grains or cereals and fruits form another happy combination.
But we are warned that people having any such combinations troubles should a stold for a meal, or milk aud regetables, milk and nuts, or sugar, milk and regetables.
After a perusal of such table we are sure to reflect upon the misguided knowledge of our manner of cookery for years past, for a common practice is that of serving cooked
regetables, such as potatoes, peas, beans, regetables, such as potatoes, peas, beans,
turnips, etc., in heated, buttered and otherwise seasoned rich milk. The mistakes that we have made and are making are many, and it is little wonder that so great ill health prerails. Reform must be the housewife's
watch-word, and it is herself that must alone work the hygienic reform of and for her household. Thorough knowledge of wholesome cookery and a thorough general
knowledge of proper combinations of food products should be a part of the education of erery woman, the foundation of which should be laid in early childhood, and studied and practised until mastered. The world is folled with untaught, careless cooks, and the world is all too full of dyspeptics
ers of the nerre-unstrung order.
Therein we further err as a class of house wives is in a misunderstanding of house rentilation and in the manner of taking
and not taking the necessary bath. and not taking the necessary bath. Houses are closed or opened as it happens, without ness prevails through the entire departments of homes quite generally. The fastidious and thoughtful along all sanitary lines are the exception and not the rule. Beds are too little aired, too soon and early "made up." Windows are too often closed, and in dom opened at all. Many who are seemingly and to all outward appearances the daintiest of housekeepers have been heard to say that all winter long no bedroom winThey are disbelierers in "too night or day in sleeping-apartments," and the night long,
poisonous air is breathed orer and over,
"Each person is exhaling into th
Each person is exhaling into that room ahout eight gallons of poisonous carbonicacid gas and other injurious material each hour," and it is this impure, poisoned atmosphere that the sleeper inhales over and orer again, each time growing in density of
impurity, when shut up in a room where impurity, when shut up in a room where fresh air from the outer world cannot enter. And this is the manner of living while sleeping of tho
We glory' in being considered "a fresh-air fiend" and "an adrocate of the bath to the point of duckism." Light-weight bedding, thorough airing of beds and sleeping-apartments, an all-day, all-night inflow of sweetsmelling purity from the ozone of the dome of hearen, clean clothes and every-day ablutions of the most thorough form and kind I years ago adopted. And I believe it a subject of so great importance to all that I think it should be talked and preached from the housetop, the platform and the pulpit. Cleanliness is the surest passport to Godli-
ness, and fresh air and water the sure ness, and fresh air
Throughout the summer let the cool sweet morning air into every corner of all the rooms, but keep the blinds closed or the


Fes, children slould earls be taught the proper uses of a handkerchief, and in this day of cheap handkerchiefs, and cheaper material for making the same, there can be no excuse for any mother neglectiug her duty in this matter. It is a simple problem. Any child can readily learn that, when needed, the handkerchief should be used quietly and unohtrusively, and then replaced in the pocket, and that a soiled handkerchie raver be paraded in public.
These are the two essentials that, mastered of the canons of good taste in this seen ingly simple matter-the correct usage the pocket-handkerchief.

And abore all should young girls be warned against that foolish practice known as the "handkerchief firtation." I few
years ago the country was flooded with printed directions for this pastime, and
young girls in their zest for novelty practised it "just for fun," never" thinking of the dangers that lay beyond. It is a wise mother who warns her child from such a

In olden days the pocket-handkerchief was never seen in public, but nice customs courtesy to great kings, and it made its first appearance in the time of Josephine. The Empress, though a very beautiful woman fect she carried a small square of fine lace or embroidery which, in conversa tion or when suniling, she often lifted lowed her example, and the handkerchief soon became an indispensable article of the toilet. These were made of cobwebby textures, costly lace or delicate pieces of embroidery, and were used chiefly for display. Previous to
this date in France the handkerchief was made much larger, but it was con sidered indelicate to produce one in
window-shades down when the sun would come pouring in and heating everything to furnace-like conditions, no matter that some one does say "let the sunshine in." Keep the rooms darkened and cool until evening hours roll around, then throw up the shades and windows, open wide the doors again, and leave them opened all through the hot, sultry nights, to make the sleeping hours quiet and restful, and the morning hours freshened for the duties to be performed.
The curtain at the west-fronted house doorway instead of the screen is an innoration worth the copying. It keeps away the flies, lets in the air and excludes the hot sunshine. When the heat of the day is past endurance the temperature of the rooms may be cooled materially if the curtain is frequently drenched with cold water. What a comfort and help this has proven to the invalid who was suffering or slowly fading away. The evaporation has lowered the
temperature of the room several degrees, temperature of the room several degrees,
the moisture absorbing the heat, the dust the moisture absorbing the heat, the cust was kept away, and
In short, how infinitely brighter, pleasanter and more comfortable may life be made where attention is intelligently given to sanitary measures and to the general principle of health and hygiene. It were well worth the while of every one to give care and thought and study to this subject of so vast importance, and to put into practhe the many precepts to be glean

Ella Hociehton
A CHAPTER ON POCKET-HANDKERCHIEFS
"I wish," observed my friend, "that some peopie knew the proper uses of a pockethandkerchief."
I looked at her inquiringl
"There is Miss Blank," she resumed, "pretty, stylish aud accomplished. She called here this afternoon, and her stay left a most unpleasant impression with me, all owing to the obtrusive manner in which she paraded her handkerchief before my eyes. and," with a little, unwilling, amused laugh, "it was not a particularly clean hand"She had a cold," continued my friend, "and more than once were my words lost in the blast she blew into that soiled bit of cambric while a waiting my reply. This occurred so regularly during our conversation that toward its close I was tempted to beg her to blow first and allow me to speak afterward-to avoid repetition! She knows better? Precisely; which but makes this little dereliction all the more noticeable. I can make no excuses for her, but had she been trained from childhood to use her handkerchief properly she would not now be lacking in one of those essentials that go to make up the perfect gentlewoman "
"Had she been trained from
displayed forbid the idea that they were made to blush unseen; still, the handker chief should nerer be obtruded upon public notice unless it is immaculate, in which ease the owner would do well to follow the example of pretty Dolly Madison, who kept "one for blow and one for show."
The handkerchief is suggestive of the owner's personality, and often serves as an index to the same. This is quite apparent in the "bandana" of the working-man, the fancy-pictured handkerchiefs of children and the plain, durable linen preferred by the business man. But there are other in stances: the sentimental woman carries a handkerchief-a dream of beauty-that a lorer well might rave orer; my lady rejoices in a collection of exquisite linen or cob-
webby nothings, and the up-to-date practical joung woman affects plain, hemstitched linen, with this concession to femininity however, that it be of the finest quality. of snowy cambric, crisp and fresh, haring, perlaps, an embroidered initial or mon ogram, and exhaling just a suggestion of the owner's favorite perfume. My lady wonld consider her toilet incomplete without this

bit of showy lawn or linen which, though scarcely evel seen, and it may be severely
plaiu, must be above reproach with regard plaiu, must be above reproach with regard to fiueness of texture.
When dueling was so greatly in vogue the handkerchief was often used as the fatal signal. One of the seconds would coun "One-two-three!" and drop a handker chief, when the pistols wonld be fired, or i swords were used the deadly combat would begin. Hence, probably the expression "In the drop of a handkerchief," when do ing a thing quickly was meant.

The following anecdote hails from the
stand twenty-asses and let Beat the white of an egg lightly, dip tissue-paper in it , and lay smooth over the jelly. Then seal with lid, Grape Preserves.-
Forpreservesgrapesshould be used when about two thirds ripe-just as soon as the skin will slip easily. Pulp one half gallon of stemmed grapes. Peel and core two large apples, and sulps and apples in a kettle with a little water, cook until they can be rubbed up until they can be rubbed up smootll, and run through a Take one pint of sugar to one of the cooked pulps. Boil until it begins to jell, then add the skins. Cook lifted on a fork look clear. Put into cans,
and seal while hot to keep from jellying.
worded that it seems a pity the writer did not choose a loftier theme for his muse. The
story runs in this wise: An Eastern sultana who seems to have possessed more beauty than moral rectitude had a lover who gave silk steeped in the rarest perfume. Night and day she wore it above her breast, but the perfume betrayed it.
The sultan, who was a grim old chap with no eye, or, more properly speaking, no nose "so that the scent of it nightly disturbeth our nuptial repose," and demanded to know where she obtained it. But she rose to the occasion, and declared that "her brother, the hey," had bestowed it as a bridal gift, husband would continue to constantly her husband would continue to love her. So her let us hope that thereafter she was more

Perhaps the costliest handkerchief in the world was that exquisite piece of worknanship that was seren years in the making, seven thousand dollars; and without doubt the most famous handkerchief was that fatal piece of embroidery that cost poor Desdemona her life.

Genevieve Hays Powell.

## UTILIZING OLD STOCKINGS

When a lady from Philadelphia asked me if I ever made over my stockings I said, "No, ings But I hare changed my mind after trying a pair of my friend's. Now I wonder how I could hare been so extraragant as to discard all my stockings, for I hare several pairs in my stocking-box, and I can wear them with my hest boots and never feel any discomfort; in fact, they answer as well as new ones. The saring of a year's stockings in this way will surprise you. Cut off all the feet, using the best of the leg. The seam comes on top. Baste very carefully,
and sew on the machine. Be careful not to and sew on the machine. Be careful not to
draw too tightly; lest the stitches break. draw too tightly, lest the stitches break.
This is working size. Belle King.

## GRAPES

The time is drawing near when grapes must be prepared for winter use. The prevents many a lover of this fruit enjoying it in the spring months, when of all times a tart fruit is most enjoyable. If the housekeeper will follow the following receipt she will find her grape jells and preserres as good in Fehruary and March as earlier in the season.
Grape Jelly.-One half gallon of stemmed grapes, two large perfect apples. slice the apples, peeling, core and all, pnt them in the preserring-kettle with thegrapes, corer with water, and cook until you can mash up smooth with a spoon. Be sure the fruit is well cooked before put into the sack to drain. Take one pint of juice to one of sugar and boil until it drops in large thick drops stand twenty-four hour and seal while hot to keep from jellying. Canned Grapes.-Take bunches not too large. Wash and remove all imperfect ones. Pierce the skin with a needle, being careful not to tear it, and lay in a colander enough bunches to fill one quart can. Take one pound of sugar, make syrup not too thick; dip the colander into a pot of hot water two or three times until grapes are hot, lift by the stems and place carefully into the can; pour over them the hot syrup, and seal at once. None need fear a complaint of grape-sugar if she will follow the abore receipts.
H. S. Moore.

## ASKING FOR MONEY

Tere are a fell phrases so almost exclusirely applied to spiritual subjects, and so altogether associated with the higher life, that it seems sacrilege to use them in reference to ordinary affairs. And yet what can be true in connection with transcendental experiense All proverbs originated in every-day life. If they are strikingly expressive, if they are of universal significance, they find their way into the world's sacred literature, and fall from the lips of the greatest teachers. This, of course, enhances their ralue. They hare receired a stamp of rare excellence. If they fail to inspire it is because thes become limited in their application. Thys should "Ask and ye shall reruth is it was in the Sermon on the Mount, a piece of every-day common sense, a bit of popular experience uttered to lead the au-
dience to test its higher application. It dience to test its higher application. It seems to me, howerer, tbat some persons are
slow to read the application backwards. slow to read the application backwards. They miss much comfort and success in their worldly affairs because they think this and many other excellent precepts are too good for conmon use. In an article eutitled following: "The Yer Testament-which, among other admirable things, is a good and simple exposition of healing philosophygives a receipt for the cure of insomnia, and is, 'Take no thought for the morrow?', Iu the same spirit we can say that the same good book gires an excellent receipt to cure much of the grumbling and discontent in society. The persons who hare not are angry at those who hare the comforts and
freedom which money represents. Juch of freedom which money represents. Juch of
this discontent could be orercome, cured or this discontent could be orercome, cured or forgotten in an energetic practise of " A sk, and ye shall receive; seek, and ye shall find; kuock, and it shall be opened unto you." But I am wandering far afeld, for my intention was to discuss the delicacy some women hare about asking for money. The wites and daughters who live at home, busy always, indispensable, and yet with no
defnite income, will tell you that they "hate toask for mones:' The men of the family have moner which they use sensibly or foolishly, as they please. Somewhat as the friendly world the women enry the rueu in the narrower social circle of the family, where lore shoula be tie law.. Far be it from me to blame women undeserredly; but where there is this reluctance to ask for
money it is certainly as much their fanlt as the men's. It is generally conceded that men with all their good traits need a little training. One mau requires to be urged to be tidy in dress; another must be gently spurred toward ceremonious manners; some need coaxing in one way, some another. No man is perfect,
serves to be forgiren many delinquencies "I good provider" is a homely old phrase, and one which may excite mirth in a
thoughtless fortunate young woman, but nearly every one lives to value the merit it nearly every one lives to value the merit it
expresses. A light-hearted old maid I know expresses. A light-hathred of the marriage ceremouy is "with my worldy goods I thee elldow." It sounds shocking, but after all it is only the materialistic form of "loving and cherishing," and we know that lore without works is nothing. There is a great deal
written about wires making thenselves charming, trying to be pretty, always being cheerful, and so on, as if it would be by these efforts that their husband's lore slould be retained. Not often enough is urged the more excellent plan of letting the husbands make some effort to retain the love of their wives. It is human nature to love what costs us something. A husband who be-
stows much will love longer aud more strongly than the one who is a recipient of more than he gives. Therefore, if a woman more than he gires. Therefore, if a woman derotion let her ask, and that her joy may be fnll let her ask largely. There is no much danger that a wife will impose on he hnsband, but supposing tliat sle should a
little: I should expect better resnlts there little; I should expect better results there
than in another family where the wife is too timid, too sensitive, too self-denying. husband likes to be asked to supply his wife's wants. If at her request he frowns slightly or heares a sigh it is not because he resents her petition, but it may be because
he is not able to supply her as liberally as he is not able to supply her as liberally as wife asking to liave her purse replenished is orle of the sweetest episodes of life. O ourse, it is a tacit acknowledgment of man's that, and the wisc ones do it gracefully

When one asks any favor one does so with pleasant words and preliminary compliments; so the loring wife asks for money with smile and caress, the husband rejoices to respond, and soon this practical part of life is quite free from displeasure. If the husband's accidental frown freezes the wife, if she rows "never again to ask for money, she may sulk a long while. "Ile ought to she may sulk a long "hile. "He ought to know what 1 need without nyy asking,
she will complain to some confidential friend. But a man is not noted for intuition, and he But a man is not hoted or intuition, and he
may wonder what makes Mary so sullen, may wonder what makes Mary so sullen, but not dreauu the cause. If at last he discorers the source of her bad temper he will say, with astonishment, "If she wants any thing why doesn't she ask.
In short, wouluen must ask for mouey: men like to be asked properly:
The same duties may be made pleasant etween fathers and daughters, between brothers and sisters. Do not throw out sar castic remarks to the effect that you earn something certainly;-as you are always busy, but you nerer see pay-day. Do not whine about your old-fasbioned clothes, and throw out slurs about folks that can have fine coats and smoke cigars and go off on pleas ure-trips. Men will hear snch talk with only a dazed feeling that you are exceedingly disagreeable. Only one of a thousand will know what ails you, and cure yon by giving you a ten-dollar bill. No, our natural pro tectors need plain dealing. A good-natured "Say, papa, I need some moner to-day, or pretty soon,"" will have happier results than a whole day's talk in the sarcastic, ironica line.
Yol
receive."

## THE PICTURE PUZZLE

It may be as old as the proverbial hills, but we played it at our Ladies' Aid social in a different manner from that I had erer seeu before, and thought as the cool e renings wer approaching some other aid might like to know of it.
In the first place, in addition to the regular adrertising, a committee was appointed to prepare telling, fetching notices, which vere to be placed in the most "sightable places. Large sleets of white paper were printed in large letters upon them

## READ:

PICTURE PUZZZLE

## Where? Parsonidge <br> Friday Eteming Price? Tex Cents Gate Gaife and Refreshy for Lothing

The wording was changed somewhat on the different bills, but the abore shows what I mean. The most attractive part of these bills, howerer, was the parts of pictures pasted upon them whererer there was room. These slashed pictures pasted on in this manner aroused the curiosity of beholders and led them to come to the social to inrestigate what it all meant.
the guests arrived they were given pieces of pictures, and at agiven signal they were to start, each one moring around the room, in search of the other pieces of his picture. The first one completing his picture may be given a prize or not, as deemed best. It is not essential, as there is "a bushel of fun" without. It is an excellent manner of breaking up the stiffness that sometimes prevail eren in church socials.

But," you say, "that necessitates so much work beforehand.
Not a great deal, I reply. A half-dozen ladies can form the committee, and each one easily prepare fire or six pictures, or even more. Any style of picture will be nsed, those from three inches in length to those a foot square-landscapes, marine lhin anals they me pasted ond board before they are "slashed." This slashing consists merely in cutting them in any manner desired-do not have the pieces too small, as that makes it too difficult to find the different pieces after they arc given out indiscriminately. The point of the game is simply this: different parts of these varions pictures are handed to different individuals, and these persons are to find parts corre-
sponding to the ones they have until a perfect sponding to the ones they have until a perfect
picture is formed. Any one may ask another picture is formed. Any one may ask another
person for lis piece if lie sees that that person for his piece if he sees that that
especial piece will ft the one he holls in his hand.
The "gate game" is especially enjojed bs
the "literati."

What gate proclaims and publishes? Promulgate. Tha A gate of inquiring turn? Interrogate. Igate which punishes sererely? Castigate. - gate full of wrinkles? Corrugate. A gate full of wrinkles? Corrugate. Conjugate
1 gate which acts as an ambassador. Legate

1 gate which travels by water: Narigate, 1 gate which makes claims? Arrogate. A gate which increases in length? Elongate.

A gate which goes to law? Litigate. gate which soothes and alleviates? Nitigate.
A gate which conquers and subdues?. Subjugate
A gate which places itself under bouds? Obligate.
gate acting as a representative? Delegate.
A gate which separates? Segregate. gate. Relegate.
gate which waters? Irrigate.
1 gate of many colors? Variegate
1 gate which assembles? Congregate
gate which seeks knowledge? Investi gate

A gate which produces its kind? Propagate.

A gate which sails the sea? Frigate. A gate of self-denial? Abnegate. A gate which repeals laws? Abrogate. Only the judges will have a copy of the you are fortunate enough to hare a mimeograph in your society the work of copying the lists.for the quests is reduced to a minimum. Te did not try to give a copy to each one, but allowed them to choose partners and work out the list with the combined thought of the two heads. We thought this really a fforded more geuuine enjoyment than for each indiridual to hare his indiridual list.
If you think the game too difficult as it is, a list of the words may be appended, and
the guests will even then find it difficult to fit the right gate to the right question, as the words will be so misplaced, thus: Segregate furuigate, relegate, subjugate, interrogate corrugate, navigate, elongate, delegate, irri gate, congregate, abrogate, frigate, abnegate adjugate, castigate, legate, arrogate, mit igate, obligate, variegate, propagate, litigate, investigate and conjugate.

Ella Bartlett stmmozs.

## A HANDFUL OF RECEIPTS FOR FALL PRESERVING

Pickled Talilits.- When the walnuts are well grown, but still soft enough to pierce with a stout needle, gather the quantity you wish to pickle. stab each one through sereral times with a big needle, then put them in a rery strong brine and let them remain ten days, cbauging the brine ever other day. After this time has elapsed drain them and set them in the smu until the nuts hare turned black. Put them in jars and pour orer them boiling rinegar which has in it the following spices, ginger-root, cinnamon, allspice, mace, clores and peppercorns, of each one ounce, and let them boil in the rinear out a for minutes. rinegar about ten or fifteen minutes. A bit dropped in each jar before you corer them adds to the pungencs. They are not fit for use until after Christmas.

Grapes, green or ripe, are always good and if yon can add some of the wild fox grapes the flaror of your jelly or preserves will be much more racy. Grape jelly is the very best for jelly-roll or Washingtou cake, and few people know how delicious spiced grapes are. Learing on the skins, if you grapes are dark colored, will color your jelly Removing them makes it a pale green.
Grapes Splced.-Leare on skins, mashhig the grapes with a wooden spoon o beak raw, add one cupful of rinegar after the grapes have been boiled and strained to remore the seeds and skins. With the rinegar add three and one half pounds of sugar and two ounces encl of poures and ngar and two ounces each of clores and Boil pulp, vinegar and spices together unt Boil pulp, rinegar and spices together unt thick like marmalade, then put in glasses. It The with meat
There is a great fancy this year for all kinds of sweetmeats called conserves. They are norel and rery rich, and not hard to inake. Iny frnit-juice may be used as a base, but the following receipt gives grapes.
from yonr grapes, boil the pulp and strai and remore the seeds. To three pints of juice add three pounds of sugar, two pounds of raisins stoned, and boil until it becomes thick like marmalade. Jnst before you re more it from the fire stir in one pound of English walnuts slightly chopped, pnt in glasses, and seal. This is rery rich, and makes a nice finish for a meal with some cake.

Spiced Pleas are rery nice, and as thi is a great plum season, may be done up cheaply by the same rule as applies to grape APPPLE JELLT is a good method of using imperfect fruit, and is much improved, un less the apples are rery tart, by the addition of some lemon-juice or the cores and paring of quinces. Cut your apples in pieces, re moring any defective spots, but leaving on the peel and cores; add a little water, and boil slowly; when tender allow them to strain through cheese-cloth, but do no squeeze. To each pint of juice allow on pound of sugar and the juice of one lemon. Boil the juice a few minutes, then add th sugar, stirring until it dissolves. In abou half an hour it will be ready to "set," the put in glasses.

To test jelly let a drop or two fall from the spoon. If the last drop sticks to th makin jur learer it will be. Also all condiment haring rinegar should be cooked in agat or porcelain-lined kettles.
GRape Catchep is a good way to use sour grapes. Cook until the grapes are tender, mashing them with a spoon. Strain, and measure the pulp. To every three pints add one pound of brown sugar, one cupful cider rinegar aud one ounce each of cinamon, mace, allspice and clores. These spices should be ground. Boil slowly until it is of the right consistencr, and bottle, corering the corks with paraffin. This should be allowed to stand a month before using.
Maple-plubs.-If you like the flaror of maple-sugar this makes a pleasant preserre. Boil the plums, strain, and to each pint of pulp allow a pound of maple-sugar. This should be melted, and must have a little vater added. Theu put in the plums and boil down until thick.
S. P. M.
"SHE THAT HATH EARS TO HEAR LET HER HEAR'
It is an old saying, and worthy of all ac ceptation, that grocery bills are easier to pay than doctor bills; so, likewise, should it be written of dry-goods bills.
Much of the illness only too common-colds, influenza, tonsillitis, pneumonia and eren diphtheria-is due not to orerdressing but to under-dressing. Many young ladies who make a most imposing appearance are reall only half clad.
Of late years many sensible young women draw on wool tights over their woolens. These garments are black. They fasten at the waist with a ribbon and cling to the limbs. They may easily be remored upon going into the house, and they keep ont the cold in a manner truly scientific.
But this is a somewhat expensire garment, and often the purse bespeaks an emplatic


## ON THE FIELD

God will give me strength to conquer, He will give me grace to lose!
am bound to fight his battles am bound to fight his battles
In the way that he shall choose. In the way that he shall choose, Beaten back and lying wounded,
With no weapon in my hand, aith no weapon in my hand,
and much his soldier As the foremost of the band.

Dying, I still bear his colors In this oriflamme of pain, And the triumph of the ages
Is the triumph of the slain.
Is the triumph of the stain.
He has filled the meed of service
Who but leaves a broken sword,
And the sorrows of the yanq
Are the glory of the Lord.
Mary Stewart Cutting, in McClure's Magazine.

## LOOK AND LISTEN

Titere was no doubt of it. The man the swift He had been run over by horse lay, a bruised and bleeding mass, there in the ditch. The most skilful surgeon in the world could not restore life to this crushed and gory frame. What was to be done next? Why, sue the railroad company, of course. Preparations were accord-
ingly made to secure a large and exemplary ingly made to secure a large and exemplary
sun from the corporation for the benefit of sum from
But in the court a few facts were brought out by indubitable testimony and through corroborative witnesses. It was shown that the railroad had been where it was for twenty years. It was made plain that the man who was killed had crossed at that point regularly every day since his childhood, and knew its time-tables and trainschedules perfectly. It was in evidence that no obstacles prevented a full view of any passing locomotive, and that the train by which the man was killed was one due at that time and not one "running wild." The people on the train and others beside the track heard the whistle when the train was approaching, and heard the bell when the crossing was about to be made. And yet the man drove on the dangerous point of the road bed apparently absorbed in
meditation; and he was killed.
When this point was reached, and no contradiction appeared, the judge dismissed the case. An appeal was taken, and a second followed the first. Now from the court of last resort comes the clear-cut decision of
the issues involved. "It is not only the the issues involved. "It is not only the
duty of railwas employes to exercise due diligence and care to perform their duties with as few perils as possible to the people, but when a point of danger is known to exist it is the duty of every man who knows of such existence of peril to look and listen. If he neglect to do so his death is simply the inevitable result of his own criminal folly."
But that is an old maxim, as old as the days of Moses. Only then the maxiin was applied to goring oxen rather than to rushready know the peril of drink, the penalties of lust, the end of the transgressor under the of lust, the end of the transgressor under the
operation of God's common, retributive laws. operation of God's common, retributive laws.
It is a terrible thing to look npon the wreck that sin has'made; the bloated form, the blood-shot eye, the weakening and decrepit fraine slowly sinking into the grave. But
the only possible verdict must be to acquit the only possible verdict must be to acquit
God. The peril was not a hidden or obscure God. The peril was not a hidden or obscure
one. It was for the naan to "look and listen." Had he done so he would nothave fallen. Did he fail to do so his mischief has simply returned upon his own head, his iniquity has come down upon his own pate.The Interior

## RECEIPTS FOR LONG LIVING

Fix deeply in mind the grand truth that life-power rules the body, and that it alone can cure disease
Life-power lives upon air, water and food
only; all else is hurtful only ; all else is hurtful.
Make cleanliness your motto, and watch against filth in both house and grounds. Few starve for food, but many for air.
Breathe deeply a handred times daily. Wear no tight clothes. Above all, ventilate your sleeping-room.
Beware of gluttony. If the appetite is dull eat fruit only or eat nothing. Use no fiery condiments, but live chiefly on natural your stomach to chew your food-employ
your teeth. Adorn your table not only with viands, but with flowers and smiles with with kindly words.
with kindly words.
Deformity is not awardness only, but danDeformity is not awardness only, but dan-
ger. A high chest will give freedom to ger. A high chest will give freedom to
breathing, and digestion helps to cure many breathing
Shun stimulants and drugs as you do pestilence. For tea and coffee drink hot water, and in illness let the same magic fluid be your physic.
Thick blood causes colds and countless other diseases. Keep the lungs active by deep breathing, the skin by baths and friction, the kidney by free drafts of warm water, the bowels by correct eating, and the blood will be pure.
Spend part of each day in muscular work, part in study, and part in good deeds to men and in the worship of God.-Pennsylvania School Journal.

## THOUGHTS FOR THE QUIET HOUR

He whose yesterday is full of industry and ambition, full of books and conversation and culture, will find his to-morrow full of worth,
happiness and friendship.-Newell D. Hillis.
The cross of Christ is the heart of the divine system, and all who by preaching are hiding the meaning of this emblem are concealing the meaning of the gospel itself.Manna.

Yesterday is yours no ionger; to-morrow maynever be yours; but to-day is yours, the living present is yours, and in the living present you may stretch forward to the things that are before.-F. W. Farrar.
Tis an absolute and, as it were, a divine perfection for a man to know how loyally to enjoy his being. We seek other conditions, by reason we do not understand the use of our own: and go out of ourselves, because we know not how there to reside.-Montaigne.

No man ever yet asked to be, as the days pass by, more noble and sweet and pure and heavenly minded-no man ever yet prayed that the evil spirits of hatred and pride and passion and worldliness might be cast out of his soul-without his petition being granted, and granted to the letter. And
with all other gifts God then gives us hi with all other gifts God then gives us his
own self besides. He makes us know him and own self besides. He makes us know him and love him and live in him.-F. W. Farrar.

## OUR GOOD SIDE AND OUR BAD

There is a good side and a bad side to every man. We see only the good side of some man, and we wonder that he is not esteemed by all as we esteem him. We see only the bad side of another man, and we are surprised that others prize him as we cannot. We are right and we are wrong in both cases. Both men have both sides, and we ought to recognize this in our estimate of them. It is with ourselves as with our fellows; we have a good side and a bad side, and those about us are likely to judge us by the one side or the other. It will be well for us if we gain a lesson from the judgment of others as to our two sides. It ought to help us to make progress in the right direction, and to repress the faults and defects for which others judge us harshly.-Sunday-School Times.

## SUFFICIENT UNTO THE DAY

In accomplishing your day's work you take that step wisely is all a thime. To take that step wisely is all that you need think about. If I am climbing a mountain, to look down may make me dizzy; to look too far up may make me tired and discouraged. Take no anxious thought for the morrow. Sufficient for the day-yes, and for
each hour in the day-is the toil or the trial each hour in the day-is the toil or the trial thereof. There is not a child of God in this
world who is strong enough to stand the World who is strong enough to stand the strain of to-day's duties and all the load of tomorrow's anxieties piled up on top of them. Paul himself would have broken down if he had attempted the experiment. We have a
perfect right to ask our Heavenly Father for strength equal to the day; but we have no right to ask him for one extra ounce of strength for anything beyond it. When the morrow comes, grace will come with it suffic ient for its tasks or for its troubles.-The odore L. Cuyler.

## HOUSE-BUILDING FOR HEALTH

That part of the fonndation which is seen
-the underpinning-should have liberal
-the underpinning-should have liberal spaces left for cellar windows, for a dark cellar lends itself to much insalubrious concealment of decaying regetables, and promotes the growth of molds and other low organisms inimical to healti. In planning date a tall furnace, if that is to be the source of heat, and treat it to a good coat of lime "whitewash. Our grandmother knew that "liming" the cellar made it delightfully science to demonstrate that lime is one of the most effectual of nicrobe-killers. coat of plastering applied to a wire lathing overhead will be an additional barrier to bad odors and a great hindrance to a fire originating in the cellar. To prevent the ground about the house from being saturated with moisture from the roofs, thoroughly constructed gutters should be provided.
Te now reach what women generally consider the house. Many people imagine that very high ceilings are vitally essential to pure air. A radical mistake. Frequently changed air in a small room is better than motionless air in an apartment as high as a church-steeple. In the Waterlow-Allen improved dwellings in London none of the rooms were over eight feet high; but by intelligently placing windows so that a perfect cross-ventilation could be had by opening them when needed, and by open fireplaces in every room, a salubrious condition was achieved that made the death rate anong athe toiling artisans of a crowded metropolis the toiling artisans of a crowded metropolis
less than in rural England. The salubriousless than in rural England. The salubrious-
ness depends less on the actual number of ness depends less on the actual number of
feet of cubic space than on those measures feet of cubic space than on those measures
that shall insure a frequent change of air, that shall insure a frequent change of air,
and as the draft in the chimney must take out a certain amount of vitiated air, that which is fresh will come in through spaces around windows and doors, and even through walls. A simple board about four inches wide fitted and placed under the lower sash will direct a constant current of fresh air upward, and is a capital method of ventilating.

## "HUSTLERS" AND "BUSTLERS"

"He's a regular hustler, eh?", said the man n the street-car to an acquaintance.
"He thinks he is," was the laughing reply; "but he is only a bustler."
However ignorant the dictionary may be in regard to the modern meaning of the word, the business world has accepted "the hustler," and we all know the man-wideawake, energetic, capable, swift to plan, and prompt to execute. What he undertakes is pushed to completion with all the skill and dispatch at his command.
But the world holds many who are only oustlers-keeping a constant commotion about them, but doing nothing. They rush here and there, take hold of this and that, are always in a whirl of excitement over some enterprise, but they never accomplish
anything. They fancy themselves anything. They fancy themselves the most busy and industrious of people, when in reality their energy is expending itself in mere bustle.
It is worth while, in the midst of our pursuits and enthusiasms, to make sure to which class we belong-whether we are wasting our strengtl uselessly, or whether we have some clearly defined object in view, and are pressing toward it with well directed effort.

## SUGAR AND SUNSHINE

Bay City, Michigan, has one of the largest beet-sugar factories in the United States, and the best one this side of Germany.
It is a wonderful process, this sagar-m ing, from the ripening and planting of the seed, the culture of beets, digging the regetables and their manipulation in the factory, to the two spoonfuls of the beautifully granulated sugar which you put in your coffee on Sunday morning.
To think that this sour old world has sugar in her heart! And it tickles our farmers since they have found it out.
Sugar-makers and beet-growers have also found this out: If the vegetables are dug during a protracted spell of cloudy weather, then the beets yield a comparatively sinall per cent of saccharine matter. If, however, they are gathered when the days are all sunshine, then is the output of sugar very largely increased.
Take a lesson, my friend, from a homely thing-a sugar-beet. Dwell continually in the blessed sunshine of God's righteousness. Then will the little children delight in jour presence, and the world shall know that you

IN HIS STEPS

## What Would Jesus Do

BY REV. CHARLES M. SHELDON

The Religious Masterpiece of the Century. Millions of Copies Already Sold A sermon story dealing with the great moral
questions of the age. Written in the winter of
1896, and read by the author, a chapter at a time, 1896, and read by the author, a chapter at a time,
to his Sunday-evening congregation in Topeka, to his Sunday-evening congregation in Topeka,
Kansas. It was then printed as a serial, then in Kansas. It was then printed as a serial, then in
book-form, and at once was recognized as the book-form, and at once was recognized as the
greatest religious work of the day. It is estigreatest reit
mated that

## Over 3,000,000 Copies

have been sold in England alone, this exceeding the record of any other American author in any oreign country.
The story has bcen warmly welcomed by En deavor societies, temperance organizations and Y. M. C. A.s everywhere.
Rev. Sheldon is known

Rev. Sheldon is known far and wide as the
"Man Who Walked," as at the National Christin Endeavor Convention this year he walked the Endeavor Convention this year he walked three miles to pre
Every one interested in the great moral and Every Christian should read it for the this book. of his Christian life.
In order that no one shall fail to read this book on account of price, we have arranged a special edition and make the following exceptionally liberal offers.

## 

Given as a premium for TWO yearly subscribers Farit and Fireside.
Get two of your friends to join you. For $\$ 1.00$ we will send the book and the paper one year to each of them, and will send you the book fres or your trouble.

Address FARM AND FIRESIDE, Springfield, Ohio


## UNSELFISHNESS

love my neighbor as myself I love his horse, his house, his pelf; His pelif, I should have said before, Means his arzhong, his Lewis door
I love my neighbor, oh, so well, That with ny nose I d bare him smell; And with my mind think thoughts like $m$.

I love him so, his ways C d fix In trade, religion, polities; His thonghts, his deeds, his aims, in fine I'd shape to harmonize with mine
Ah, would he let me love him so. How suroothly all our plans would go and my neighbor would he on But ofttimes, when I sit with him And note lisis humor, sweet or grim With disappointed heart I see
My neighbor is in love with me.

- Rohert J. Burdette.
-Rohert J. Burdette.
"Oh, hear the owl," said he. "'Who! Who!' Said she, "It sounds more like 'woo." "Oh, jes," he cried, "that's rery true But really now I wonder who-
Just here the owl replied, "You two!" The roung man promptly took the cue


## SHE WANTED TO PLEASE

HRE is an amusing story at the expense go was on the stafi of a paper some time society items. Every week her copy went to the editor heautifully written and fault less, considered as copy from a printer's point of riew; but any little suggestiou she wauted to make she ran along with the article in the following "Nr. and Mrs. Brown-Smyth gave on Monday an elegant dinner of fomrtceu covers. (For gooduess' sake, spell her name 'smy'-last week it went in 'Smi,' and she was fearfully cross about it.) Mrs. Indigo Blueblood has sent ont cards for a ball, at which she will introduce into society her lorely daughter. (This is all right. This Mrrs. Bluehlood has some sense, and doesn't in the
least mind seeing her name in print. It's the least mind seeing her name in print. It's the
other Mrs. Blueblood we had the fuss with.) IIrs. De Porkins contemplates a visit to Paris early in the spring. (Don't stick her down at the tail-end of the colnmn, whatever you do. I want to please her somehow, hecause last week she went in as one of the maus "others.')
The editor was away, and the sub was so rery buss hc hadn't time to read the proof of this. and it went in the paper in full. exactly as she had written it.
the sayings of little sammy smith

## Humor is things a feller says to you when you're

 feelin' like langhinPa says he changed his name when he got married; it was Smith, and now it's Smitbereells. Ma is threatened with nervous prostration. Pa
says she's got the kind that affects eversbods says she's got the kind that affects eversbody else's nerves but hers.
do with it, but Kittie Biggs tells more lies than do with it, but Kittie Biggs tells more lies than
ever since she's got her false teeth.
Pa sajs women are like fountain-pens; they work till they drop, and make us poor fellers scratch till they get ready to do it again.
Pa was defeated for alderman this spring. Ma said 'twas 'cause he didn't put his heart in the fight, but pa said that wasn't it-'twas his leg. "IIan is as the grass," the preacher said, and I
asked pa what it meant. He said it referred to asked pa what it meant. He said it referred to ma's folks and such, 'cause they come up in the
spring and stay all summer. spring and stay all summer.
other day and sat in our new chair and prett other day and sat in our new chair, and pretty
soon he begun to kind $0^{2}$ smile and look real pleasant. Pa reached for his cane and I went out and got a brick, but there wasn't no cause for alarm. IIa had left her camera on the table and it was pointed right at the old man; that's all.Judge.

POINTED PARAGRAPHS
An important foot-note--"Please use the mat." Things are apt to look rather hlew after a ey clone.
The only
The only covering of the river's bed is a shcet of water.
As an extra precaution every cooking-school should be run in comncetion with all eatiug-school. on her string.
on her string.
The lender frequently finds that borrowing dulls A time-honored pa
is not duly protested.
Some men are so Some men are so lacking in
they won't even entertain an idea
The road to fame is crowded with

HIS FIRST WEDDING
"Mood gorning, meutlegen!" politely but peculiarly saluted a pale, worried-looking young man, who was passing the tarern at Pettyrille. "Dice nay."
"Gay." gracions!" ejacnlated a recently arrired guest, who was standing on the porch with the landlord. "What is the matter with that gentle man, to canse him to talk in such a strange man-
"That's the new minister," replied the landlord "Last night he officiated at his first wedding, the marriage of Miss Hitcheraft and Mr. Hotchkiss, and bein' cousiderahly nervous and agitated, he got so badly tangled in tryin' to repeat the names of the bride and groom that at the conclusion of the ceremony he stammered out an inquiry if cussing was kistomary, and then tried to cover his confusion hy amouncin' that the usual collection wonld he takeu up. His tongue and nerres 'pear to he still twisted this unornin', hnt I s'pose he'll
get over it after awhile."-Jndge.

## A GEORGIA MARK TAPLE

 John Johnson happened to the accident of haring his left leg cut off, but he was fully iusured, and will uow hare enongh money to go iuto business on his own acconnt. We congratulate jou, The editor has beeu laid up for a week past, hut we are glad to say that he is ont again- $\$ 50$ or $\$ 60$. The weather is so hot that we can cook oun meals in the sunshine. This is a great saring of fire-wood, and shows that the Lord will provide. our office into the next county just iu time to sare our office into the next county jnst iu time to sareus the trouble of payiug house-rent. - Whitsett

OPEN HOUSE
"Come aud dine with ns to-morrow." said the old fellow who had made his money and wantel to push his way into society.
"Sorry," replied the elegant man, "I can't. I'm going to see 'Harmet.
"That's all right." said the hospitable old genteman, "hring him with you."-London Tid-bits,

A WAY OUT OF IT
Mrs. Gahb-"Now you mnst come and see me this week sure. Come Thmrsdar; I will look for you then."
Mrs. Gadd-"TWell. I'll try to : but it may rain Thursday, you kuow:
Mrs. Gabb-"Well.
Ir's. Gabb-"TVell. if it rains Thursday you inst come Thednesday

MAN FOR THE EMERGENCY

## "-

 foremanl."We ain't," replied the editor of the "Plunk ville Bugle." "but that picture of the man who was cureci of liver *omplaint by Jobson's Liver Bitter, is enough like him to go.
conter of the wood-box."

## ONLY NATURAL

Betb had heen accustomed to only the little patch of blue orer her city home. On heing taken to the country, and seeing the sky completely cor-
ered with clouds, she exclaimed, with much surprise, "Why, the sky gets tanned in the country, too, doesn't it, mama?"-Judge.

NEW HEAD ANATOMY
Beth had never hefore seen a woman wearing a high hack-comb. '"Goodness, mama!" she ex-
claimed, with wide-open eves. "that woman's hea bas a finger-uail!"-Judge.

biblical

The Career and Triumphs of | c. |
| :--- |
| $\frac{2}{2}$ |
| $\frac{2}{8}$ | par from May 1st to the surrender of Manila, his diplomacy and statesmanship, and the triumpbal journey home, all receive due attention. The battle of Manila is but the climax of a lifetime of devotion to duty. The story of the wonderful victory is incomplete without a full understanding of the years of preparation leáding up to it.

## READS LIKE ROMANCE

The story abounds in incidents and anecdotes and gives an insight into the character of that life which bursts like a glorious sunshine on the view of the American people.


THIS BOOK SHOULD BE READ IN EVERY HOME
BY OLD AND YOUNG AS A RECORD OF.......

## A TRULY GREAT MAN

A man in whom are combined the most glorious traditions of the American nary and the noblest instincts of humanity. No book of
biography ever issued has been so finely illustrated; the result is THE biography ever issued has been so finely illu
THRILLING STORY TOLD IN PICTURES.

## OVER 140 ILLUSTRATIONS

## Rare Illustrations-Exclusive Illustrations

Many of these illustrations are historic pictures, some are special drawings, and by far the greater part are from actual photograpls. All are instructive and pleasing as well as accurate and authentic. Many There are nearly 300 large pages, 6 by S inches in size, containing more than 140 illustrations and substantially bound iu artisticalls decorated than 140 mas mo motio on it cover. Because we print the book ourselves and make wo mant the subscriptions and clubs-cxplains how we call it at such a great bargain.

WE OFFER THIS BOOK FREE FOR a CLUB OF ONLY TWO YEARLY
subscribers to farm and fireside at the clubbing price
We Will Send This Life of Dewey,
and Farm and Fireside One Year, for

Postage
paid by us
Address FARMI AND FIRESIDE, Springfield, Ohio

INDEX TO FARM AND FIRESIDE
VOLUME XXII.-October 1, 1898, to September 15, 1899
Articles are indexed by the number of the issue in which they appear. The volume begins with the first of October, and the issues are numbered regularly from 1 to 24. . Illustrated article.


Wealth of our country． When a squirrel is shy
Where day heins．．．．
Which and tother．．．．
Wireless telegraphy．

## Household

Acid dinners．．．．．．．．．．．．
Adulteration of
Allowance for the childiden Apple cake．
Arletta lace
Arrangenen on of the hair＊
Asking for money．．．．．．．
 Baked egg－plaut． sand wic
Battenher
doill
dot
$\underset{\substack{\text { lace＊} \\ \text { medalliois＊} \\ \text { phototo－frame }}}{\substack{*}}$

## Beets． Beforeliandedness Begonias Ben

 Rilus＊

 Breakfastolog
Broiled
Lam． Camerage on the forin．
Conned apples．．．．．．．．
hens tomatoes
Canning
Card parties． Card par ies．．．．．．．．．．．．．
Care of children＇s fet
of teet Case for curtain－stretchers 1 Chicken tomales，


 dinner
sooth
times
Closets
 Constipation
Cooling the cellar：
 mumins
pie
pone．
possters
ors． Corset－corers
Count
Coungheotendy
Cound Congh－canay
Country cluh．
seliools cream cheese．：
Creamed celery．



 pincush ons＊$\ldots$ ．．．．．．．．
Darning and mending
Daughice of the house Daughuer of the house
Deeprative preainting．．．
Deent Device for watering plants poily in lace braid．
Oresses for winter． Orinks and sander． iches．
 dainties
Economy Extra touches．
Fanse economy
Family license Famny Horense
Fan－whorl
Fan－wheel lace $\underset{\text { Farm home．}}{\text { Fashionable }}$ Fashion hints．
Fingirer－bandage
Fireliace in summin
 Five ne
Flag lace
Flowers
For the



 Grapes
catch11
Guest


 made do
maikets
toilets




Inexpensive grille．，
Infant＇s necessities Inflaumed eves．．．．．
Intueuee of dress．
Jack－kuife parts．
Jauls aud preserve Jaall－kuife party：．
Jellies
und preserre Keep chilidren at ho．．．．．
Keetins hutter Nibhout
ice chiidion on tia．farm． uip ，ine
Kichen
cluh

## －



 Monticello
Mothers． Nasturium sandwich
Neck ear norettes．．．
New embroidery
 Okra a 12 daube
old fashioned thin
gnide－book
 Parties for childre
Patien mother
Patriotict designs ${ }^{*}$ ． Patriotic de
Peaches
Penmauship





 | Poultry an |
| :--- |
| $\begin{array}{c}\text { Presered } \\ \text { Preserving }\end{array}$ |

##  

 curling． Reereation $9 \ldots$ the youngRefresling sweets．．．．．．．．． Refrigerator＊＊
Rhulart jam．
Rice－thowig

Rags and ceng
Sallie dressing．
Sunn．


 Second bests．．．．．．．．．．．．．．
Selecting a chaing－dish．：
Self－imposed task． Sellimposed
Slirt－waists．
Siekness
Silk hiscuitis． Silk hiscuits．
slan
Smail firits．
Sofanill Sofa－pillow ．．．．．．．．．．
Sons of ountion
Source of countidence Souvenir fans．．．．．．．
Speech and mannes． Speech and
Spicc of lif．
Spiderweb
Sace
 spriag coo
Star－pads
Starching
Starching out the tari．．．．．．．．
Stray ount at the door：．
Stranger at Succotash Sudden illness．
Sugar in new roie
Summer boarders．
 pleasures
reeeints
sickness

| $\begin{aligned} & \text { suppers } \\ & \text { surpirsin } \\ & \text { Suspenders } \end{aligned}$ |
| :---: |
|  |  |


linen
Tatted doiliz＊
lace ．．．．．．．．．．

 Tire to kiss me．
Toilet furisishings．
Tomatoes Tratchon lace＊．．．．．．．．．．
Trining housekeepers．
Treating an ngyl door． Tried receipts．．．．
Turlile－loplit．
Tursey
incubator．


Yeendiau lace＊
War of the rose
Washin

Whild dowers．．．．
Windows
Whater fiomers．

Wood－carring $*$
Word
Wiebach the wise．．．．．．．．．．．．．．．．．．．．．．．． 16



Waking dreams
Weary wara al
That＇s wa kis？ What then a fo．．．．．．．．．． get hald．
pa shares．
school lets the cows come home．．．．．．
Tour har is thin on top

general


16

200no

## $00+10$

 UnselfishnessUseless，the．
Vacation

## Queries



ชัジも
2000

## owouloc <br> －MOCHOHO <br> \section*{}



$$
\begin{gathered}
9 \\
4 \\
12 \\
16 \\
20 \\
16 \\
16 \\
13 \\
21 \\
21 \\
17 \\
\hline
\end{gathered}
$$

## ruit drep tar Gor Gra Gra d e not I Gn In In

## 

 droppingearly hard
not bearin
$\underset{\substack{\text { rines，transpianting．．．．．．．．．．．．．．．} \\ \text { wine and rinegar }}}{ }$
Gumming $. . .1 . . . . . . . .$.
Improring wild strarber－

Jripating orchards．．．
Leaf blig
hopper
rollers
Leafing out，late．．．．．．．
Lemon，budding the．
Lichen on apple－har．


sear，hest

## Plyiloxer I＇lum len resettin




## 

start
Bhiminess
Blood－poisong
Rlowd winl

1sooks wanta．．．．
13ntlomy cosis．
Bots
Bowel lomsenes．
Irain disase．．．．
1 nit

lirul ed
lim1ns
inn




 $\begin{array}{r}\text { mo．．．．．．} \\ \text { molars．} \\ \hline . .\end{array}$ hioo．．．． Diahetes $\ldots . .11,14,15$,
Diarrhea．．．．6，11，
Discharges．．．．10．11，
Distemper ．．．．．．．．．．
Dis．
 Enlarged gland Epileps．
Erysipelas
Exosiosis
Ere disease．．．
Knocked out．
Feeding rye．．． Feedin
Fistula
Fleas


## Glan Gilee Gor

Gored
Gorter
Grare

## Gruhs in liead．．．．．．．．．．．．．．．．．． Hairless spots．．．．．．．．．．． Hard milker．．．．．．．．．．．．


Holds milk uil．．．
Hollow hof－ 1 ．ail
Hoot，injured．．．

Indigestion
Indurated
Indamed
Inflamed
Induraed eyes．
Inflammation．


Lam
Lan
Liap
Lice

Lamp and pimples．

Malign
Mane
Mange
Mastit
Mastits
Mietritis
Milk he
lumpy here caiving．has．．．

Navicular disease．．．．．
New hay dia．
Not sheddiug hair．．．．．
Not shedding hair．．．
Nimphonaniala
olistruction iu udder．
Ophthres．．．．．
$11,14,15$
Osteoporo
orerwork
Paralysis

Paraphimos
Paraplegia
Pericaruitis
Pinvorms．
Pneumonia
Poll－evil．
Poll－evil.........
Premature birth．

Puerper
Puffs
Quiter
Rahies
Rheumatis
Rlngbone
Ringworm．
Scab．．．．．．
Scratccies．．．．．．．．．．．．．．
Serious case．．．．
Shieep losing wo
Sheep
Sick bul
lambs

## Sla vering． Soaptsid． Soft sliul

eve es
foot
liil，
lil
in hork－joi
shouldels：
withers．
Sparin．
spaying
helfers
Spur
Stiruess
Stit



Tapenorms
in lamhs
Tetanus．．．
Teaswal 1 ir
Tat．
Thjored
Teat．injure．．．．．
Thoroughin
Thnot
Thoroughin
Throat atiection
Thrut
Throat
Thrush

| Tuberculosis $\ldots \ldots \ldots \ldots$ |  |  |  | aned | Paid th |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tumor.............16, 19, 19, 2.3 | No separation.......... ${ }^{\text {ded }}{ }^{21}$ | Dressing a moundi........... it $_{\text {s }}{ }^{\text {d }}$ | Terrible veng The proper it | Eye to business........... 17 | Parrental blessing......... 11 |
| Turpeutine .............. | Out of plnub............. 8 | Eating snails ............. | Tipping | Fading of the substance. 21 | Piathos lost. . . . |
| Tympanitis .............. ${ }^{17}$ | I'tace of Jesus............. 21 | Edison's \$10 clothes-plu.. | Too much for the admirai | Fralse jervel............. ${ }^{\text {19 }}$ | Peep in future............. ${ }^{22} 10$ |
|  | Pearl-diver ............. 19 | Electric cooking......... 1 is | True story | 1rimiliarity ............... 9 | Peu sketeh on man........ 11 |
| Vitiatod appetite....s, 10. 11 Warbles ...................14. 19 |  | English swords........... | Cnfortunate i | family doctors........... 21 | P'henomenor $. . .1 . . . . .$. . 14 |
| wirb | of Agassiz. | Expert, one-s | Wasps mistake......... ${ }^{\text {W }}$ | Fetminine logic.......... ${ }^{\text {cerer }}$ is | Piece of his miud......... 16 |
| 1, 3, $5, * 6,13,17,18,20,21$ | Preserve chidren's teeth. ${ }^{\text {a }}$ | Fire maste iu Eniteri | man is made of......... | 1-inesse . . . . . . . . . . . . ... it $^{\text {a }}$ | Play upou words. |
|  | Prompt people........... ${ }^{1}$ | States | Whiterashing ........... 15 | First wedding............. 24 | Poinied paragr |
| Weakne | Receipts for long living.. 24 | First cal | Whooping-cough bacillus.. 10 | Folly of polit | Polnters for partua...... ${ }^{2} 0$ |
| Mild parsnip............ ${ }^{\text {W }}$ | Remembered the apple- barrel |  | Wilbelmina ............. | Fortunes from little in | Pepular |
|  |  | Franklins to | Wind as ponter |  | Prepard ................. 23 |
| Woiman.......1, 9, 13, 18. 2il $_{6}^{\prime \prime}$ | Restraint of religiou..... 10 <br> Saiutly faces. | From Ruskin | Womau and a lamycr.... s |  | fur worsi................ 11 |
|  | sanitary alphabet.......... $\frac{1}{5}$ |  | Women brick-makers...... 18 is outlive men............ | Fuel suppl | lretty girls............... 12 |
| Sunday Afternoon | santary alpuabet.......... ${ }^{3} 3$ | Good | Working the big.......... 18 | Gentle hint...................... | Prize storg...................... 19 |
|  | Secret of happiness...... 15 | Grant's self | X-ray printing............ 10 | Georvia Mark Tapleç..... 2 | Prompt frect............. ${ }^{17}$ |
| Belated lore |  | Hectograph and ink...... 18 |  | Getting | Quite dcll |
| Be thankful. ${ }^{\text {ce.i........ }}{ }^{9}$ | Self-denial loug life....... 21 | Hint to ma.................. 14 | Smiles | insured $\ldots$.............. 16 | Rainy duy............. 11 |
| Chasteuing it token of iore 11 | Sentence sermons......... 18 | How Cubans lie........... 18 |  | Glints from |  |
| Curis.i.m's ludian summer | sick-room thoughtfulness. 18 | electricitr kills......... 24 | About the exact time.... 5 | Good reason why......... is | Revlsed praycr............ |
| Cigarettes ${ }^{\text {co........... } 10}$ | Simplicitr of speect..... 23 | Porto Ricans share..... 10 | Accompaniment ........... 19 | Had her way............ ${ }^{3}$ | 11ght after:H11............ |
| Climbing stairs........... 18 | Sins of the tongue....... $8_{8}^{8}$ | she brought Joun to the | Advertising $\qquad$ 18 | Halted | Safe ................... 21 $_{1}$ |
| Come and see.............. $1 \frac{1}{1}$ | Strength of character.... Success and failure..... 3 | point ................... ${ }^{24}$ | Afvertising ${ }^{\text {a }}$ (er the trial............. ${ }^{13} 19$ | ${ }_{\text {Her buew }}^{\text {Healifast............. }{ }^{\text {a }} \text {, } 11}$ | Safer at lome.......... |
| Confidences ............... 4 | Sufficient unto the day... 24 | Incandescent laups........ 22 | Ahe | chance .................. ı́ $^{\text {a }}$ | Said nothi.g |
| Cubic choice............. 10 | Sugar and sunshine...... 24 | Insects drunkards........ 16 | Almost all right . . . . . . . . . $2:$ | purse -.................. 11 |  |
| Daugerous habit......... 16 | Tactful lesson........... 17 | Insignificance of man.... 10 | Appreciating blessings.... 1: 1 | Heredity ${ }^{\text {- }}$. $\ldots$.............. 18 1s | Sayings of s |
| Demon of discouragement 11 | Take care of the feet.... ${ }^{2}$ | Iron-rust remored....... 18 | Anui-expansionist ......... ${ }^{7}$ | He's guessing yet | School poet.............. 12 |
| Depth of life. | Talk less, do more........ 10 | is rour name here........ 11 | As others see it................. 19 | High art | Scotch of it, the........ ${ }^{3}$ |
| $\qquad$ | Teaching children applica- | check | with one roice they | Hints from expert | Seat of the Solomon..... 8 |
| pletels |  | Lace made by insects.... 12 | spose up | Hourred hers............. 11 | Seat of the soul......... ${ }^{\frac{9}{5}}$ |
| Dou't let little thlngs | Tests of frlendship...... ${ }^{21}$ | Languages lnswiss parli | At his word............. ${ }^{6}$ | Horuets . . . . . . . . . . . . . . 15 | Sharp servant............. 12 |
|  | Things Bibltreader should | ment | Attack of inspira,iou..... $8^{8}$ | How she saved him...... 16 | She knerr. . . . . . . . . . . . . . 15 $^{\text {5 }}$ |
| Do something............ 19 |  | Laughter |  | Hypodermic |  |
| Duts. aud trust. <br> Ed... a i 13 al netds of aver- | Thought jewels............... 20 | Machinists' nomeuclature. ${ }^{6}$ | Bare facts wanted....... 6 | Iuquirs | Simple additi |
| ase woman $22$ | True wife................ ${ }^{\text {a }}$ | Mralaria .................. 13 | Beauty's distress-signal... ${ }_{2}$ | In the elerated | Skeleton scar |
| Exaggerated dangers..... 14 | Uses for lemons.......... 22 | Manila street-cars........ 1 | Bicikels . ............... 21 | Irisuman's description of | Smacks of Em |
| False ideas of success... 17 |  | Marriage customs........ 11 | Birdie's appetite.......... 10 | the I' |  |
|  | Worrs cured............... 20 | in Porto Rico.......... 18 | Birds on her hat.......... ${ }^{9}$ | It was pi | Smashed |
| ${ }_{\text {Family }}^{\text {Fifly words fading..... }} 21$ |  | Meddling phonograph..... ${ }^{7}$ |  | Irs's hearthstone, the.... | Society news in Ind a..... 21 |
| Fifty-tirst psa <br> Front the sun. | beauty to the face.... 22 | Mietric ssstem.............. $1 \frac{1}{6}$ | Come at last $\begin{array}{r} 18 \\ 9 \end{array}$ | Late in erening |  |
| Gifis and |  | Microbes ................ 10 | Catamaran ............... 18 | Levity …............... 10 | Staybolt's <br> Straw, a |
| God knows................ 18 |  | Mind-reader ............ 9 | Cat and fiddle............ ${ }^{\text {T }}$ | Letter to be pondered | Street-car in |
| Gone this war.......... 20 | ections, | Montana history, bit of.. ${ }^{6}$ |  |  | Strong-minde |
| Good prayer, a......... ${ }_{\text {cle }}{ }_{20}^{5}$ | and Miscell | Wolves <br> Mosquitoes | Cbange of base............ 11 | Libel on hotel............ 8 | Sunday-schcol jarn........ 12 |
|  |  | Mosquitoes ....io....... 22 | Children's imaginations... ${ }^{\text {coser }}$ | Like cat, like mistriss, $0^{6}$ 6 | Sure to gat it mended.... 10 |
| Grumbliug habit.......... 19 | Age of oyster............ 15 | Names for wires.......... 11 | Chinese account of the | 15. 16, 18, 20, 21, 22, 23 | Takes his home |
| Happy old | A mbidexterity ........... 17 | of mars................. ${ }^{3}$ | United States. | Location | Thought he wa |
| Hard fight | America's last camel...... 9 | New textile............... 12 | blunders | Long-felt want........... 13 | mol |
| Hardsuips ............... 12 | Appendicitis ............ 13 | Niagara ${ }^{\text {a }}$ power.......... 23 | Church differences....... 10 | Lucid paragraph......... 15 | Three İ |
| Haryest, | Artificial stone............ ? | Ouce was enough........ 23 | Collar-button ........... 10 | Machine-made flower-pots | Thrifty |
| Healthfulne | Avoid stooping........... ${ }^{5}$ | Opening neir book........ 11 | Colored sentinel.......... ${ }^{7}$ | Main attraction.......... 15 | Ticklish thing............. 12 |
| He died rich............ ${ }^{5}$ |  |  | Coming black sheep....... 9 | Man for emergencs...... ${ }^{24}$ | Time for silence.......... 19 |
| Homely truths........... 19 | Barn's age.............. 10 | Origin of dollar-sign..... 16 | ${ }_{\text {Common disease }}$ | Marrying a man........ 20 | Tin-mbistlers $\ldots . . . . . . . . . .13$ |
| Honoling parents......... 15 | Bareux tapestry $\ldots$....... 10 |  |  | Memors trait........... 10 | Too high |
| Hothouse piety............ió ${ }^{\prime}$ | Boiling water without fire Boxing bride's ears..... d | Rai | Conundrums $\qquad$ | Memor |  |
| How do 5ou walk. ....... 19 | Canadian stamp........... 13 | Philippiue girls........... 9 | Cort's grief............... $1^{15}$ | Mistrustful ............... $1^{7}$ | Transposition .............. $1_{2}$ |
| Milburn studied ......... 13 | Castilian cuisine.......... 2 | Piguy locomotive......... $2^{2}$ | Cr's repartee........... 1 is | Modest.wants............. 15 | Trick faile |
| progress comes...i..... | Chaurinism and jingoism. ${ }^{\text {d }}$ | Pointers on painting...... ${ }_{18}^{23}$ | Creed of gissips......... ${ }_{\text {Criminal }}^{\text {nfg tct }}$ 年 | Mother's ologies............ 11 | he didn't learn 12 |
| Humility and humiliation Husbands and wives...... | Cheery atmosphere........ ${ }_{2}^{1}$ | Preserring wood........ 18 | Criminal nєg tct............................ 17 | Natural effect............... 11 | Trusted lim to no one..... $1 \frac{1}{1}$ |
| Husbands and wires...... ${ }^{2}$ | Childreu's money sense.. ${ }^{2}$ | Queer advertisements .... 12 |  |  | Two babies. ................ 14 |
| Sundar at home | Child's point of riew..... 23 | Railways and prosperits. | Cubas | departure | immigrants |
| Iguoran $e$ in Bible history 12 | Chinaman did not trist... 9 | Rarest U. S. stamp....... 23 | Culing the mule | head anatomy.......... ${ }_{24}$ | Oiews a |
| 1 maginary woes | Clock without figures.... 4 | Rising wages............. 18 | Curiosity, too m | theors | Unlookeri-for |
| Knowing yonr Bible..... 10 | Close guess.. | Romance of aluminium... 3 | Dean Swift's partner. | - | Unlucks man.............. 11 |
| Know your Bible better.. 1 | Coin's career | Rooserelt's slippery way. | Defending his profession. 11 | No difference............. 22 | Useless expense........... 18 |
| Letters and the blues.... 10 | Colonel Cody | Royalty managing ser- | Definition of baby........ 10 | more questions........... ${ }^{7}$ |  |
| Life and health........... 8 | Colors of gems | Pules for busines | nial <br> D sirable companion |  | Verv simple................. 14 |
| Live to da | Connecticnt worm turns. 9 |  | Did he believe | a good | Wanted to please......... 24 |
| Lonets. be. ..................... 23 | Constituents of the bouy. 18 | Sacredness | Didn't open that | comfortil | IVe all moud |
|  | Consumption and canaries 12 |  | Doctor was | disturbed | What a risitor learued... 12 |
| Making most of life...... 12 | Coral | Seatbottom temperature. ${ }^{\text {d }}$, |  |  |  |
| Manliness ............... 13 | Corn fed philosopher...... 9 | simple remedr........... | ophy ... | Norel advertis | she thought.............. $1 \underline{1}$ |
| Man's likeness to man... 13 | remedies $\ldots . .$. .......... 12 | spain and Yankee Doodle | Double do | Number one................ 13 | they said.............. 19 |
| rriage maxims | Creaky boots............. ${ }^{8}$ | Spanish for high lif | Dressed up.............. 15 | Obliged the judge | Where Anatias came in. |
| Modern life hurried....... | Curious trees................ | Sport and manhood....... ${ }^{3}{ }^{3}$ | Drugs ${ }_{\text {Erasive }}$ answer.............. ${ }^{15}$ | Odds and ends............ 10 | Woman buri-dwi hh hors ${ }_{\text {intended }}$ |
| Verrous clildr |  | Street railmays........... 15 |  | Only natural............... 24 | intended for general.. 10 |
| ever denies us | 24 | Sugar .................... 17 | Explained ............... 7 | Open house. | Wrorth living for......... 10 |

## 40 Cent Patterns for 10 Cents

We Will Send Any TWO PATTERNS, and This Paper One Year, for 40 CENTS

 Address FARM AND FIRESIDE, Springfield, Ohio



A $\qquad$
igator's of the globe, follows the 1suth merid-
ian. He ands that he has beell unable to
find the date-line on any niap The date-line does not follow the 1suth or
any other meridian for its sentire course. hut
takes a somerrlat derious route throngh the
Pacific. It is strange that it is shown on so rery few maps of the world. The reasons through our country on the meridian of
Clicago. In that case, when it was Monday Chicago to San Francisco and ont on the Insiness inconvenience. It is evident that
the date-line should not pass through any continents. It is practically a necessity that
sucli a line had to be fixed somewhere, but it obviously laal to run through an ocean.
It should not pass through the Atlantie Monllay in London, Paris, and Hannburg, it his would be inconvenient in regions that and are so closely united by telegraphs and cables. The best place for the date-line was
in the Pacific ocean. If we follow the line throngh the Pacific we shall observe that the in flarking its eourse.
Passing through the midule of Behring strait, the line suddenly turns to the south-
west thll it reacles 1700
degrees east long-
inde. entire Aleutian chain, all a part of Vortly
Anerica, are kept on the American side of
the line. When it is गYonday in Jew York, the line. When it is Monday in Mew York,
it is also Monday in . Ittu, our most western
Then the line streeps east ward again and
follows the 180th meridian far south wutil it follows the 180 oth meridian far south until it
reaches the neighborloorl of the Fiji islands. As this group and other islands round about
belong to Great Britian, and are closely united in business relations with New Zea-
land and Australia, the line takes a wide sweep to the east, so as to give them all the same calendar day. It then returns to
the 1 soth neridian, which it follows to the

The annexation of the Plilippines, which lie sixty degrees beyond the 1soth neridian
going west, makes it incumbent on all Americans to know ererything about the
date-line.-Jew Lork Sun.

HOW SHE BROUGHT JOHN TO THE POINT "Olh, Mamie," said the blonde girl to the

## makes up 1 IIer motlier, keeper aud

 things about a house. Consequently; Julia knows how to do all surts of things-washand iron and cook and all the rest. so one night Julia leads on the unsuspecting John Thint he is riding his hobby good and strong. she does not go into athletics of all kinds he thinks she's a wildel butterfis, or words to
that effect. Then she un aill uters to bet him that she'll do the family washing the
next Monday, and do it in style He can against a box of giores. of conrse, Johr himself is to be the julge-that's the game.
"Well, John slows up Monday' morning, and finds. Julia well along with the washing;

THE AMERICAN WALTHAM WATCH Company guarantees every watch=move= ment it turns out against any defect in material or construction. That guaranty holds good the world over. One WALTHAM movement, the "RIVERSIDE" is within the reach of every one; it will keep accurate time and will last a lifetime Any retail dealer will supply this movement in any quality of case desired either for ladies or gentlemen

## For sale by all retail jerwelers

 cted American Watch," an illustrated book of interesting information about watches, sent free on request.American Waltham Watch Co., Waltham, mass.


GOOD PRICES FOR HAY


## THA SFTPRPF TO EVERY WOMAN



Starbrizht Po
LARKIN SOAPS AND PREMIUMS.-FACTORY TO FAMILY Send for a beautiful booklet free. It
tells how to obtain, free. the famous
the Lhe Larkln Soap Mfg, Co, Larkin St, Buffalo, N.Y.

HEMCH \& DROMGOLD'S GRAIN
FORCE FEED FORCEFEED
and GHABHED DII

Normal University


Notice to Club-raisers

Address Farm and Fireside, Springfield, Ohio.

## LEARN

TELEGRAPHY


[^0]:    Stomach Troubles A good ruany of our to fits of indigestiou, and these agaiu to eatshould not have takeu into or things we Solue people can eat and digest almost anything so loug as they are taken in reason are at all observing, will discover that there are certain the are liable to upe in ordinary quantity only chinery. I know of people for whom even the strawberry acts as a poison. If sure to have trouble with mates, I an and, of course, with my head, also. In

[^1]:    heifers goiug with thelr first calf have

[^2]:    Many of the books are by famous authors, known wherever the English language is spoken. There are novels by such great authors as Bertha M. Clay, Charles Dickens, Nathaniel Hawthorne and others. There are sermons by the great Talmage, books by the inspired Spurgeon, fables by Esopus, stories of adventure and travel for boys and girls, chimes and jingles for the children, books of choice fun and humor, and numerous other books on various subjects. Some of the books contain more than 200 pages, others from 100 to 200 , while the smallest has 64 pages. All are bound in strong paper covers with attractive designs. We guarantee entire satisfaction in every case or your money will be cheerfully refunded.

[^3]:    1 DLC 1 Make Big Wages I Make Big Wages
    
    

[^4]:    - -ow that the young roosters are running at large they will grow rapidly if properly they may suddenly show weakness in the
    legs. If they eat and seem well otherwise they will soon come in proper condition, as
    the weakness is caused by the birds growing in height rather than in breadth, the legs
    seeming to grow longer. Such birds show weather than at any other time as if of the of bone-meal, and they will not only easil
    get orer it, but will erentually be the largest
    nes in the flock.

[^5]:    Hapriet Fbanceate Cbocker.

[^6]:    ground may become affiected, and it the

[^7]:    Skirts for little girls are made straight and

[^8]:    hang him.-Collier's Weekly.

